CALIFORNIA HIGH-SPEED TRAIN Engineering Plans

Kings/Tulare

Bakersfield

Burbank to Los Angeles

Option B Revised Alignment Volume 3.7

HSR Burbank Airport Station

August 2021

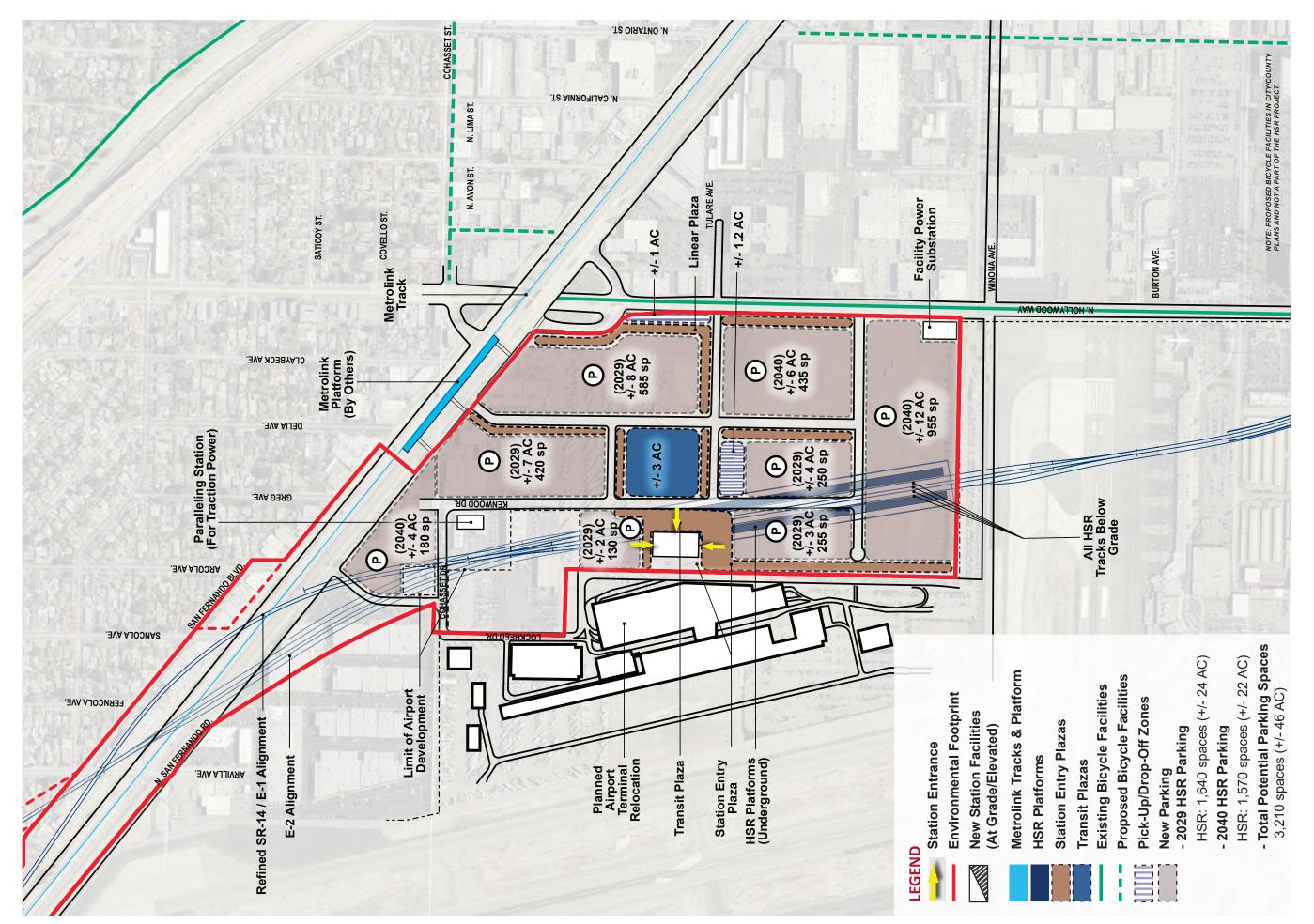


FOR REFERENCE ONLY - FOR THE LATEST PLANS, SEE HSR PALMDALE TO BURBANK SECTION

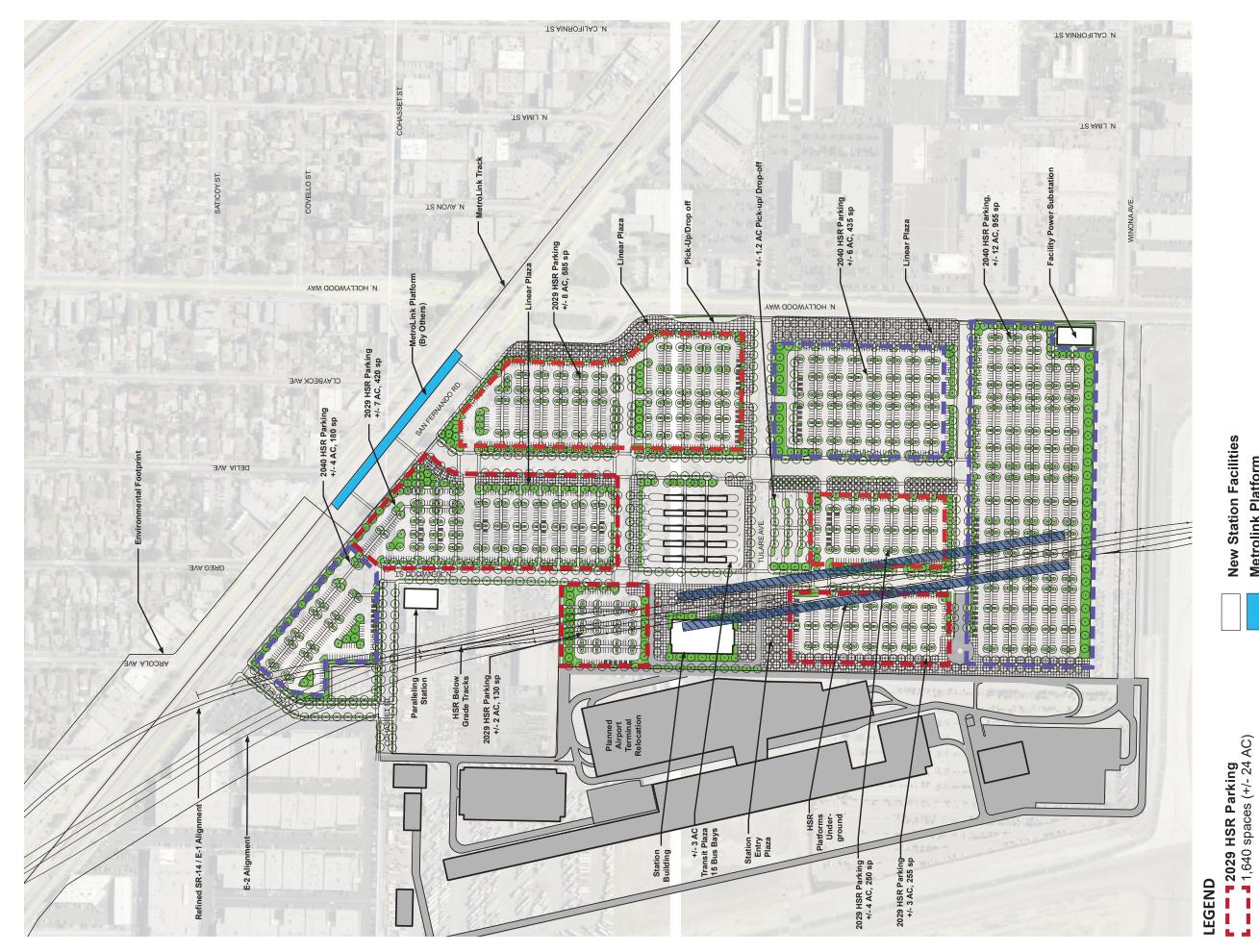
California High-Speed Rail Authority Palmdale to Burbank Project Section **DRAFT PEPD REV01 Burbank Station Area Plans** February 2019 **High-Speed Rail Authority**

TABLE OF CONTENTS:

Burbank Station General Site Plan	1
Burbank Station Detailed Site Plan	2
Burbank Station Cross Section West-East Site Section Looking North	3
Burbank Station Massing Model Perspective A	4
Burbank Station Massing Model Perspective B	5
Burbank Station Massing Model Perspective C	6
Burbank Station Programming & Area Requirements Table	7
Burbank Station Facility Sizing Table	8-10



Burbank Station General Site Plan





SCALE: 1" = 150"

Planned Airport Terminal Relocation

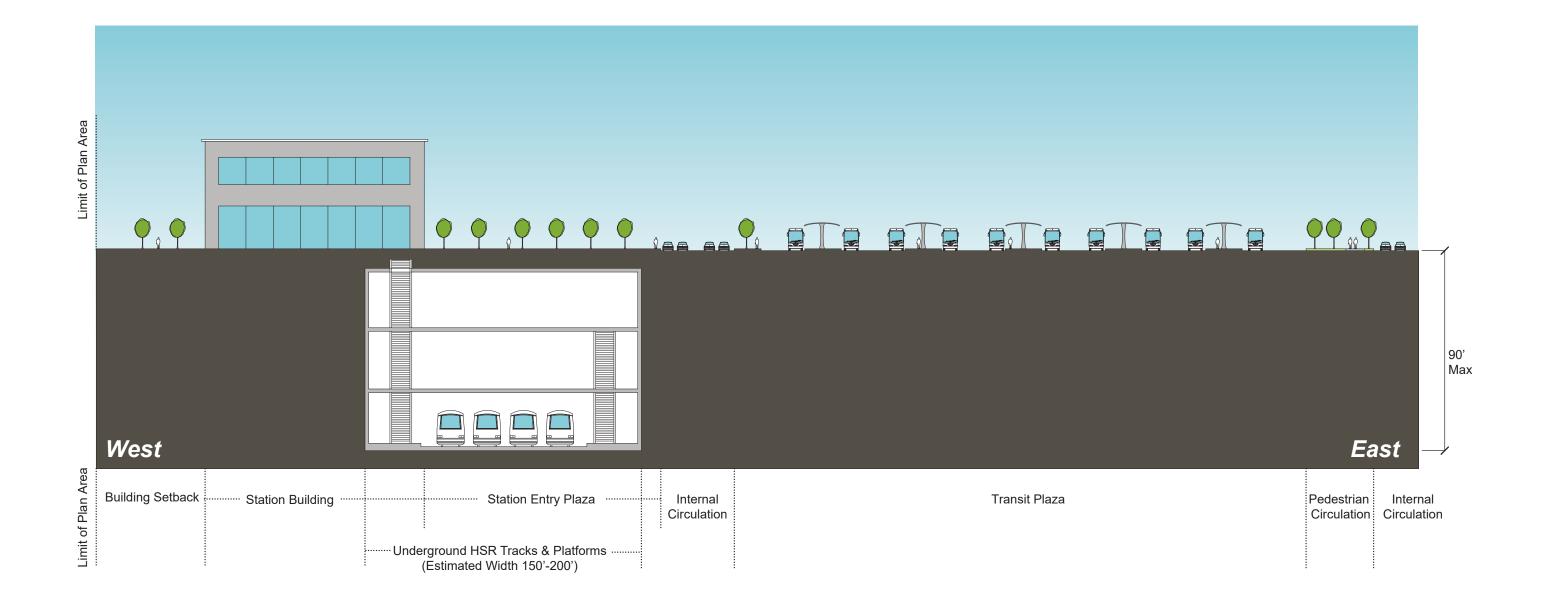
Landscaping

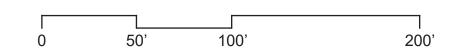
Total Potential Parking Spaces 3,210 spaces (+/- 46 AC)

12040 HSR Parking 11,570 spaces (+/- 22 AC)

HSR Platform (Underground)

Metrolink Platform

















Burbank Station Programmi	ing & Area Requirements Table			
Function Name	Description	Formula	Required Area (Net SF) Minimum	Comments
Burbank Daily Peak Ridership Boardings 2040	Long distance + Short Distance Boardings	12,800	12,800	CHSR 2016 Business Plan
P360B	Highest Daily Boardings X Conversation Factor for Boardings=6hour Boardings	Highest Daily Boardings x 0.67=P360B 12,800 x 0.67	8,576	
P360A	Peak 6 Hour Boardings X Conversation Factor for Alightings =6hour Alightings	P360B x 0.75=P360A 8576 x 0.75	6,432	
P60B	Peak 6 hour Boardings x Peak hour conversion Factor for Boardings=Peak Hour Boardings	P360B x 0.17=P60B 8576 X 0.17	1,458	
P60A	Peak Hour Boardings x Peak Hour Conversion Factor for Alightings=Peak Hour Alightings	P60B x 0.75=P60A 552 x 0.75	1,094	
P30B	Peak Hour Boardings /2 x Surge Factor = Peak 30-minute Boardings	(P60B /2) x 1.2=P30B (1458/2) x 1.2	875	
P30A	Peak 30-minute Boardings x Conversion Factor = Peak 30 minute Alightings	P30B x 0.075=P30A 875 x 0.75	656	
P15B	Peak Hour Boardings / 4 x Surge Factor = Peak 15- minute Boardings	(P60B / 4) x 1.3= P15B (1458 /4) x 1.3	474	
P15A	Peak 15-minute Boardings x Conversion Factor=Peak 15 minute Alightings	P15B x 0.75=P15A 474 x 0.75	356	California HSTP Design Criteria, Chapter 14-Stations, Oct 2015, Working Draft, Rev.2 Table 14-1 Passenger Ridership Assumptions
P5B	Peak Hour Boardings /12 x Surge Factor = Peak 5-minute Boardings	(P60B / 12) x 1.4= P5B (1458/12) x 1.4	170	Table 14-3 Concourse Circulation and Waiting Areas
P5A	Peak 5-minute Boardings x Conversion Factor = Peak 5-minute Alightings	P5B x 0.75=P5A 170 x 0.75	128	
P1B	Peak Hour Boardings /60 x Surge Factor=Peak 1 Minute Boardings	(P60B /60) x 1.5=P1B (1458 /60) x 1.5	36	
P1A	Peak 1-minute Boardings x Conversion Factor for Alightings=Peak 1 Minute Alightings	P1Bx0.75 36x0.75	27	
Cf	Unobstructed Net Concourse Free Public Area Circulation Width	(P15B+P15A)/(15x10 people/ft/min) or 16 ft min. (474+356)/(15x10 people/ft/min)	476	
Wf	Net Waiting Area in Concourse Free Public Area	((P15Bx1.1) + (P15Ax0.1))x 14 square feet ((474x1.1) +(356x0.1)) x 14	7,798	
Public Restrooms	Women + Men + Unisex accessible restroom for each group	(P15B+P15A) / 2 (474+356) /2	415	14.3.4 Public Restrooms
Passenger Amenity Space Allocation	Station Design Target Year Daily Boardings	More than 10,000	9,000	Table 14-7, Chapter 14 March 2016, corrected as directed Comment 45_3-09-2017
Ticket Windows	Station Quantity	P60B/600 638:600	2	Table 14-5: HST Ticket Sales Facilities
Ticket Vending Machines		P60B/280 638/280	3	
Value Added Machines	2 Per Platform Minimum]
Fare Gates Intermediate		P1B /50 ppm 36/50 One additional gate to be provided if under 10	2	Table 14-6 Fare Gates
Emergency Gates			2	14.3.3.6
Side Platform Station	Peak- hour boarding and fully occupied train alighting	P60B + 900 p	2358	14.3.6.2
Sr	Seating at Concourse Free Waiting Area	((P15B x 1.1) + (P15A x 0.1)) x .25	139	Table 14-22: Station Seating

Burbank Station Facility Sizing Table Burbank Projected Daily Ridership (2040) 25,600 (12,800 Boardings + 12,800 Alightings), based on CHSR Authority 2016 Business Plan STATION TYPE: Intermediate, Full-Service, Large: based on Chapter 14 Stations Design Criteria, Table 14-3 Formula Chapter 14:Stations Comments **Function Name** Required Area (Net SF) Minimum Station Concourse (Free Area - Main Hall) 29,050 P15 x 35 SF/person 14.3.5.1 P15 = P15 B + P15 A = 474 + 356 = 830 ,use 35 SF/person 107 Ln.Ft. 14.3.5.2 Entrances (P60B x 1.1)/15 Ln.Ft. P60B=552, 15 ft width at least one entrance Mezzanine N/A tracks and platform underground Passenger Waiting Area 7,798 ((P15B x 1.1)+(P15Ax0.1)) 14.3.5.3.B.C California HSTP Design Criteria, Chapter 14-Stations, March 2016, Rev 2 and October 2015, Working draft, Rev 2. Table 14-1 Passenger x 14 SF Table 14-3 Ridership Assumptions, Table 14-3 Ticket Vending Machines (TVM) 72 P60B/280 Table 14-5, 14.3.5.6 P60B = 1458, 6 TVM, Minimum 2 required Public I 9,000 Concessionaire Table 14-7 More than 10,000 Boardings 14.3.5.7.C **Business Lounge** 600 14.3.5.4 **Public Restrooms** 1,100 CBC 2016, CPC 2016 P15 = 830 A-3 Assembly Occupancy, 415 Male, 415 Female: 8 Water Closets, 5 Lavatories (P15B + P15A)/2Male: 3 Water closets, 4 Urinal, 3 Lavatories Drinking Fountains: 3 100 14.3.5.4 1 Unisex (or family) accessible restroom for each group of restrooms **Unisex Restrooms** 60 14.3.7.1.D **Janitor Closets** 14.3.5.7A Minimum 1 required **Ticket Office Counter** 14.3.5.6.B **Ticket Office Window Quality** P60B/600 P60B = 552, Minimum 1 + 1 ADA accessible 14.3.5.7A 14.3.6.2.A 500 Police Office Includes Lockers 60 14.3.7.1.D Janitor Closets 144 14.3.6.2.B Security Guard Office 14.3.2.1 **HSR Platform** 14.3.2.1 Metrolink Platform Station Entry Plazas (Total Area) 14.4.4.8 Transit Plazas (Total Area) 14.4.2.4 Transit Plazas (Sizing Assumptions) 14.4.2.4 Pick-up Drop Off (Total Area) 14.4.2.5 Pick-up Drop Off (Sizing Assumptions) 14.4.2.5 2029 Parking Totals Sidewalks and landscaping are also included in parking area.

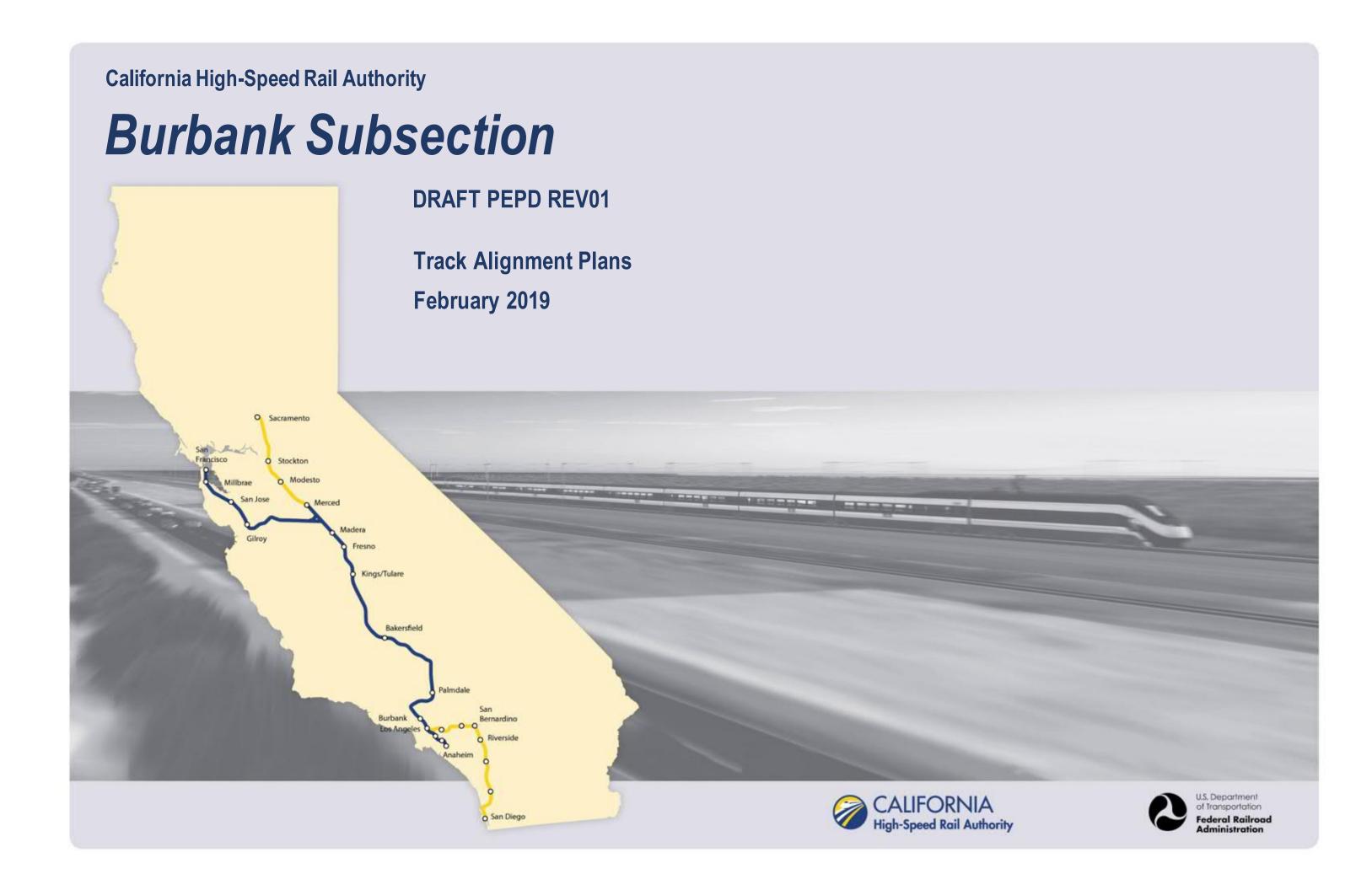
Sidewalks and landscaping are also included in parking area.

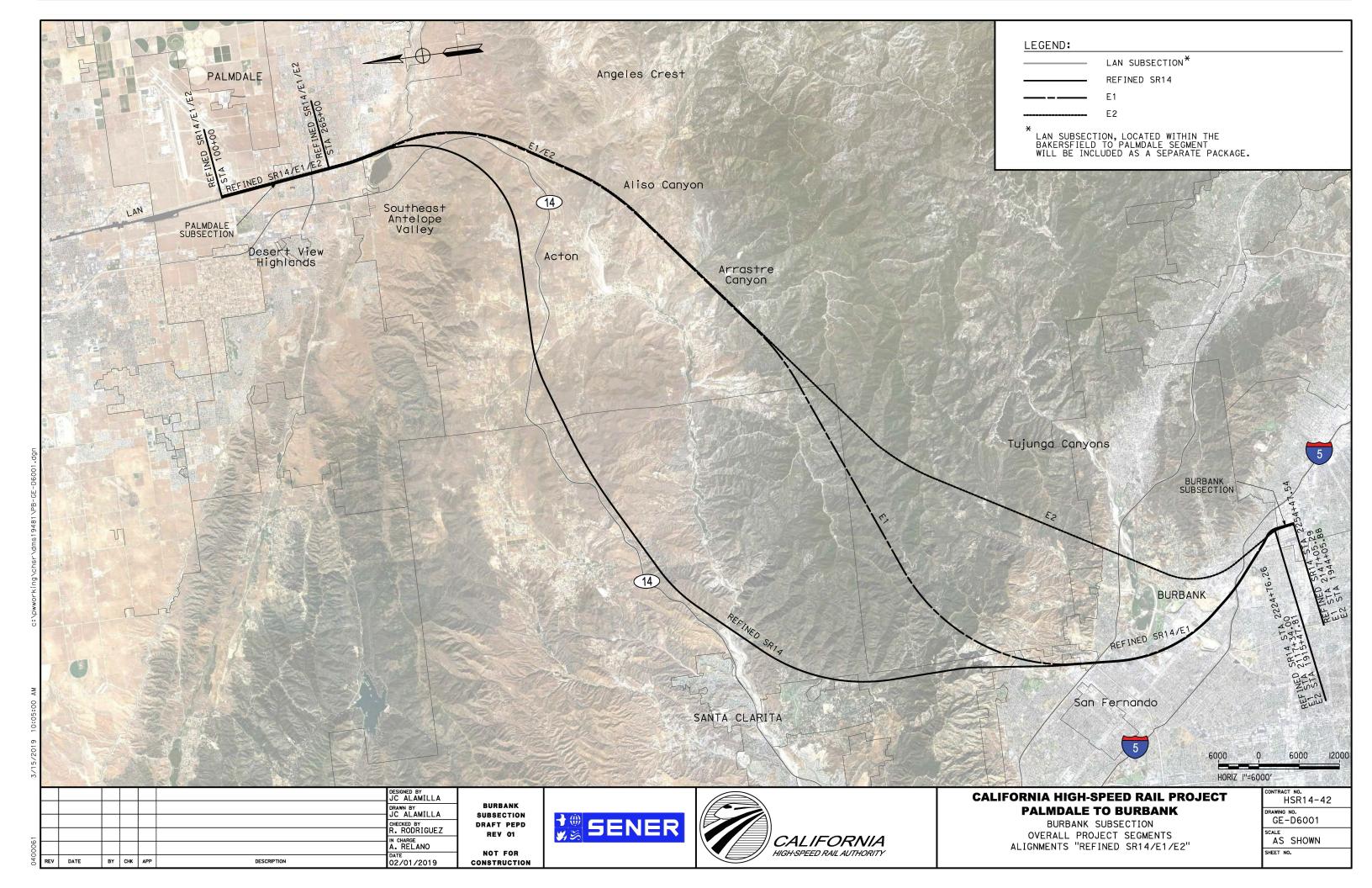
2040 Parking Totals

Burbank Station Facility Sizing Table Burbank Projected Daily Ridership (2040) 25,600 (12,800 Boardings + 12,800 Alightings), based on CHSR Authority 2016 Business Plan STATION TYPE: Intermediate, Full-Service, Large: based on Chapter 14 Stations Design Criteria, Table 14-3 Required Area Chapter 14:Stations Comments **Function Name** Formula (SF) Minimum 225 14.3.5.7.A **Ticket Sales Office** 75 SF per window, 3 ticket sales windows 260 Ticket Admin., Handling & Storage 14.3.5.6.B Ticket Administration Office 14.3.5.7 14.3.6.2.C-D 200 14.3.6.1E-F Lost & Found & First Aid Room 1,100 14.3.6.2.E Station Control Room (SCR) **SCR Dedicated Computer Room** 500 14.3.6.2.F 300 Temporary Incident Command Post (CP) 14.3.6.2.G Station Staff Only 1,100 SOR Workroom 14.3.6.2.H **SOR Dedicated Computer Room** 500 14.3.6.2.F-H 780 Staff Lockers, Showers, Restrooms 14.3.6.1.1 2016_ Business Plan Operations and Maintenance Cost Model, Table 20- Station Service Level C, Table 21, Table 24, Table 28. Assumed CBC 2016, CPC 2016 administration staff, police, security and cleaning personnel 27. B Business Occupancy, 14 Male, 14 Female. Female: 2 Watercloset, 1 Lavatory Male: 1 Watercloset, 1 Urinal, 1 Lavatory 2 Staff Shower Rooms adjacent to Locker rooms and Restrooms 60 14.3.7.1.C Janitor Closets 675 27/shift x 25SF 14.3.6.1G-H Staff Breakroom & Meeting Rooms 200 SF min or as reg to provide 25 SF /staff Station Manager Office 270 14.3.6.1A 270 SF 270 14.3.6.1C Facility Manager's Office Admin Office Space 270 14.3.6.1.B Facilities Maintenance Office 330 14.3.6.1.C 200 14.3.7.1.E Add 60 SF for misc. if required. Station General Storage Rooms 200 100 SF x (2) 14.3.6.2.1 OMB shall be provided on each platform, 2 platforms Platform Area Op. Mgt. Booth Mech., Elec. & Plumbing Rooms 1,000 14.3.7.2 **Battery Room** 400 200 SF x (2) 14.3.7.4.B Two rooms req, including one room at each end of station for LV batteries. **UPS Room** 1,800 900 SF x (2) 14.3.7.2.C Two rooms req., one at each end of station for low voltage (LV) distribution, transforming, EP and Fire Detection & Protection Rooms 100 14.3.7.2.C **Building Services** 14.3.7.2.E Train Control /Communications Room 1,915 Table 14-8 For the train control and communications equipment 240 14.3.7.2.E Entrance Facility Room Table 14-8 For entry of service cabling into the building. May be co-located with the TCC room. 120 14.3.7.2.E 3rd Party Telecom Room Table 14-8 390 130 SFx (3) 14.3.7.2.E Communications Closets Table 14-8 Number TBD. Locate close to center of each 10,000 SF of Station Floor Area

Renewable Energy/Stormwater

Burbank S	Burbank Station Facility Sizing Table						
Burbank P	rbank Projected Daily Ridership (2040) 25,600 (12,800 Boardings + 12,800 Alightings), based on CHSR Authority 2016 Business Plan						
			STATION TYPE: Intermediat	e, Full-Service, Large: k	pased on Chapter 14 Stations Design Criteria, Table 14-3		
	Function Name	Required Area (SF) Minimum	Formula	Chapter 14:Stations	Comments		
Ę	Main Station Building Recycling/Refuse	150		14.3.7.1.A			
Maint. Support Areas	Secondary Station Building Recycling	60		14.3.7.1.C			
t. Su Area	Landscape Maintenance Room	100		14.3.7.1.F			
laint	Loading Zone and Service Entrance	800		14.3.7.1.G			
2	Loading Dock	480	24 Ft wide x 20 Ft deep	14.3.7.1.H			
		_					
	SUBTOTAL	70,977 SF					
	Efficiency Factor	2					
	TOTAL AREA- MAIN STATION BUILDING	141,954 SF					
	TOTAL AREA-Substation:	10,000 SF					
	TOTAL:	151,954 SF					





DRA	AWING NO.	DESCRIPTION	SHEET NO
GE-D6	001	OVERALL PROJECT SEGMENTS	
TT-B0	0001	INDEX OF DRAWINGS	
TT-B0	004	ABBREVIATIONS	
TT-B0	005	ABBREVIATIONS AND LEGEND	

BURBANK AIRPORT STATION

DRAWING NO.	DESCRIPTION	SHEET	NO.
TT-C6001-BUR	HIGH SPEED RAIL PLANS - KEY MAP		
TT-D1001A-BUR	PLAN AND PROFILE - STA 2226+00.00 TO STA 2254+47.54		
TT-D1002A-BUR	SB PLATFORM TRACK - PLAN AND PROFILE - STA 3220+87.48 TO STA 3254+47.54		
TT-D1003A-BUR	NB PLATFORM TRACK - PLAN AND PROFILE - STA 4230+87.49 TO STA 4296+77.55		
TT-D1004A-BUR	NB REFUGE TRACK - PLAN AND PROFILE - STA 5219+79.818 TO STA 5239+77.524		

DESIGNED BY JC ALAMILLA DRAWN BY JC ALAMILLA CHECKED BY R. RODRIGUEZ N CHARGE A. RELANO DATE 02/01/2019 BY CHK APP DESCRIPTION

BURBANK SUBSECTION DRAFT PEPD REV 01

NOT FOR

CONSTRUCTION





CALIFORNIA HIGH-SPEED RAIL PROJECT PALMDALE TO BURBANK

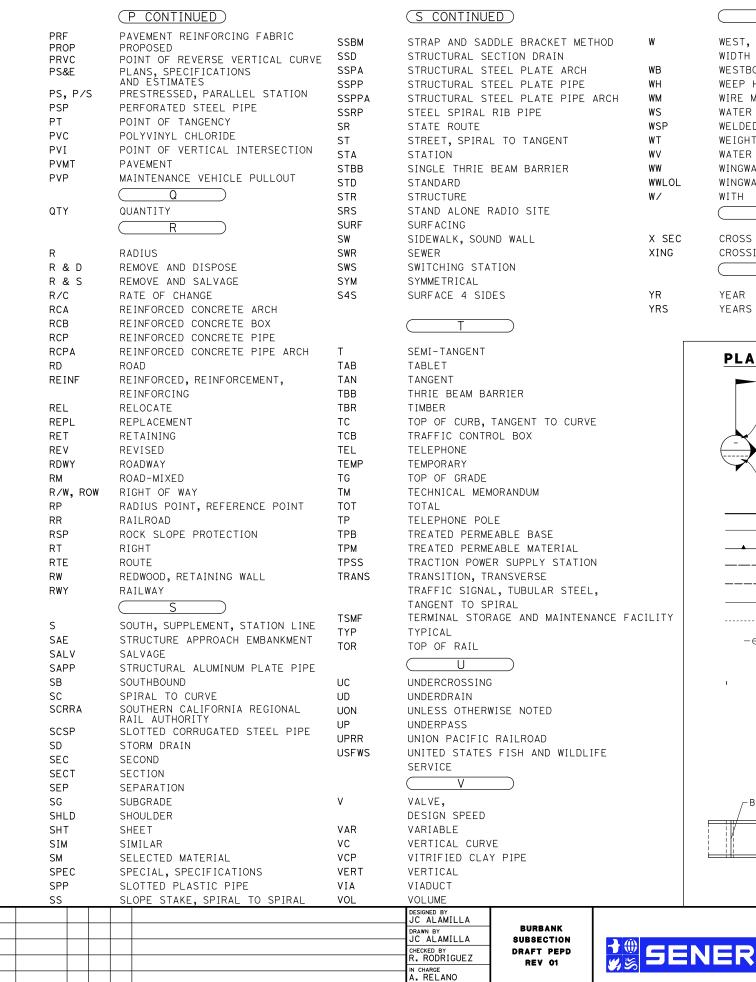
BURBANK SUBSECTION

GENERAL INDEX OF DRAWINGS

ONTRACT NO. HSR14-42 TT-B0001 SCALE NO SCALE

SHEET NO.

		A		(C CONTINUED)		(E CONTINUED)		Н			(M CONTINUED)	
	АВ	AGGREGATE BASE	CHSRA	CALIFORNIA HIGH SPEED RAIL	EASE	EASEMENT	Н	HEIGHT		MOD	MODIFIED, MODIFY	
	ABBC	ASBESTOS BONDED BITUMINOUS COATED	CHSINA	AUTHORITY	EB	END OF BRIDGE, EASTBOUND	HD	HORIZONTAL DRAIN		MON	MONUMENT	
	ABM	AIR-BLOWN MORTAR	CHST	CALIFORNIA HIGH SPEED TRAIN	EC	END HORIZONTAL CURVE	HDC	HIGH DESERT CORRIG	OR	MP	METAL PLATE	
	ABN	ABANDON	CHSR	CALIFORNIA HIGH SPEED RAIL	ECR	END CURB RETURN	HDWL HEX HD	HEADWALL HEXAGONAL HEAD		MPGR	METAL PLATE GUARD RAILI	NG
	ABUT	ABUTMENT	CG	CENTER OF GRAVITY	ED	EDGE DRAIN	HMA	HOT MIXED ASPHALT		MPH	MILES PER HOUR	
	AC	ASPHALT CONCRETE DAGE	CHNL	CHANNEL	EDC	EDGE DRAIN CLEANOUT	HORIZ	HORIZONTAL		MR	MOVEMENT RATING	E A D T I I
	ACB ACP	ASPHALT CONCRETE BASE ASBESTOS CEMENT PIPE	CI CIDH	CAST IRON CAST-IN-DRILLED-HOLE	EDO EDV	EDGE DRAIN OUTLET EDGE DRAIN VENT	HP	HINGE POINT, HORSE	POWER	MSE MSS	MECHANICALLY STABILIZED MOVING SCAFFOLDING SYST	
	ADL	ADDED DEAD LOAD		CAST-IN-PLACE, CAST IRON PIPE	ELEC	ELECTROLIER	HPS	HIGH PERFORMANCE	STEEL	MT	MAIN TRACK	LIVI
	ADJ	ADJUST	•	CAST IN PLACE CONCRETE PIPE	ELECT	ELECTRIC	HR	HOUR		MTL	MATERIAL	
	AFES	ALTERNATIVE FLARED END SECTION	CISS	CAST-IN-STEEL-SHELL	ELEV	ELEVATION	HS HSR	HIGH STRENGTH HIGH SPEED RAIL			(N)	
	AHD	AHEAD	CJP	COMPLETE JOINT PENETRATION	ELLN	EXTRALEGAL LEAD NETWORK	HST	HIGH SPEED TRAIN		N	NORTH, NORTHING	
	ALT	ALTERNATE	CL	CENTERLINE, CLASS	EMB	EMBANKMENT	HW	HEADWALL, HIGH WAT	ER	N/A	NOT APPLICABLE	
	AM AP	TIME FROM MIDNIGHT TO NOON ALTERNATIVE PIPE	© CL2	CENTERLINE CLASS 2	ENGR EOD	ENGINEER EDGE OF DECK	HWM	HIGH WATER MARK		NB NO.	NORTHBOUND NUMBER (MUST HAVE PERIO	n)
	APC	ALTERNATIVE PIPE CULVERT	CL-6	CHAIN LINK FENCE (6 FT)	EP	EDGE OF PAVEMENT	HWY	HIGHWAY		NOS.	NUMBERS (MUST HAVE PERI	
		APPROXIMATE	CLR	CLEAR, CLEARANCE	EQ	EQUATION, EQUAL				NPS	NOMINAL PIPE SIZE	00,
	APU	ALTERNATIVE PIPE UNDERDRAIN	СМ	CORRUGATED METAL	ES	EDGE OF SHOULDER	IB	IMPORTED BORROW		NS	NEAR SIDE	
	ARS	ACCELERATION RESPONSE SPECTRUM	CMP	CORRUGATED METAL PIPE	ETW	EDGE OF TRAVELED WAY	ID	INSIDE DIAMETER		NTS	NOT TO SCALE	
	AR	ACCESS RESTRICTION	CO	COUNTY	EVC	END VERTICAL CURVE	IF	INSIDE FACE			0	
	AS ASRP	AGGREGATE SUBBASE ALUMINUM SPIRAL RIB PIPE	COL CONC	COLUMN CONCRETE	EW EXC	ENDWALL EXCAVATION	IN INT	INCH, INCHES INTERIOR		OBLR	OBLITERATE	
	ASSY	ASSEMBLY	COND	CONDUIT		X.EXISTING	INV	INVERT		OBLK	OVERCROSSING	
	ATPB	ASPHALT TREATED PERMEABLE BASE	CONN	CONNECTOR	EXP	EXPANSION	IRR	IRRIGATION		ocs	OVERHEAD CONTACT SYSTEM	1
	ATPM	ASPHALT TREATED PERMEABLE MATERIAL	CONST	CONSTRUCT, CONSTRUCTION	EXP JT	EXPANSION JOINT				OD	OUTSIDE DIAMETER	
	AVE	AVENUE	CONT	CONTINUOUS	EXT	EXTERIOR				OF	OUTSIDE FACE	
	AVG	AVERAGE	COORD	COORDINATE	EXWY	EXPRESSWAY	JCT	JUNCTION		OG	ORIGINAL GROUND	
	@	АТ	CP CR	CANDLEPOWER		F	JP JPCP	JOINT POLE	DETE DAVENENT	OGAC	OPEN GRADED ASPHALT CON	ICRETE
		В	CRCP	CREEK CONTINUOUS REINFORCED CONCRETE PAVT	F & C	FRAME AND COVER	JPCP JS	JOINTED PLAIN CONC		OH O-0	OVERHEAD OUT TO OUT	
	BAGR	BRIDGE APPROACH GUARD RAILING	CRSP	CONCRETED ROCK SLOPE PROTECTION	F & G	FRAME AND GRATE	JT	JOINT		OPP	OPPOSITE	
	ВВ	BEGINNING OF BRIDGE	CS	CURVE TO SPIRAL	FB	FLOOR BEAM						
	ВС	BEGIN HORIZONTAL CURVE	CSP	CORRUGATED STEEL PIPE	F-B	FRESNO TO BAKERSFIELD		(K)			(P)	
ngl		BALANCED CANTILEVER CONSTRUCTION	CSPA	CORRUGATED STEEL PIPE ARCH	FDN	FOUNDATION	K	DISTANCE TO ACHIEV	E 1% GRADE CHANGE		PAGE	_
0.4.0		BEGIN CURB RETURN	CTB CTPB	CEMENT TREATED BASE CEMENT TREATED PERMEABLE BASE	FEBT FES	FACING EASTBOUND TRAFFIC FLARED END SECTION				PAP DD	PERFORATED ALUMINUM PIP PULL BOX	Ł
B000		BEGIN BITUMINOUS COATED	СТРМ	CEMENT TREATED PERMEABLE MATERIAL	FES	FILTER FABRIC	L	LENGTH		PB PC	POINT OF CURVATURE, PRE	TAST
<u>-</u>	BK BK	BACK	CTRS	CENTERS	FG	FINISHED GRADE	LAT	LATITUDE		PCC	POINT OF COMPOUND CURVE	
-BB-	BKF	BACKFILL	CULV	CIII VERT	EII	FIRE HYDRANT	LC	LENGTH OF CURVE			PORTLAND CEMENT CONCRET	
14\	BLDG	BUILDING	CVFPB	CENTRAL VALLEY FLOOD PROTECTION BOARD	FIG	FIGURE	LCB	LEAN CONCRETE BAS		PCP	PERFORATED CONCRETE PIP	
181	BLM	BRIDGE-LOG MILE			FL	FLOW LINE	LMF LN	LIGHT MAINTENANCE LANE	FACILITY		PRESTRESSED CONCRETE PI	
ğ	BLVD	BOULEVARD	D.	DEDTH	FNBT	FACING NORTHBOUND TRAFFIC FACE OF CONCRETE	LOC	LOCATION		PCVC	POINT OF COMPOUND VERTI	CAL CURVE
zs.	BM BND	BENCH MARK BOUND	D DD	DEPTH DOWNDRAIN, DIRECTIVE DRILLING	FOC FPLM	FACE OF CONCRETE FULL SPAN PRECAST	LOL	LAYOUT LINE		PED PED OC	PEDESTRIAN PEDESTRIAN OVERCROSSING	
9/ct	BOT	BOTTOM	DBL	DOUBLE	FFLM	LAUNCHING METHOD	LONG	LONGITUDE		PED UC	PEDESTRIAN UNDERCROSSIN	
ř.	BR	BRIDGE	DEG	DEGREE	FR RD	FRONTAGE ROAD	LONGIT	LONGITUDINAL			PERMEABLE MATERIAL	-
NO N	BRG	BEARING	DEL	DELINEATOR	FS	FAR SIDE, FINISHED SURFACE	LS	LENGTH OF SPIRAL		PG	PROFILE GRADE	
<u>.</u> .	BTU	BRITISH THERMAL UNIT	DET	DETAIL, DETOUR	FSBT	FACING SOUTHBOUND TRAFFIC	LT	LEFT M		PI	POINT OF INTERSECTION	
٥	BVC	BEGIN VERTICAL CURVE	DF	DOUGLAS FIR	FT	FOOTING	MATNIT			PJP	PARTIAL JOINT PENETRATION	N
	BW	BARBED WIRE	DI DIA	DRAINAGE INLET, DROP INLET DIAMETER	FTG FUT	FOOTING FUTURE	MAINT MAX	MAINTENANCE MAXIMUM		P,PL P/L	PLATE PROPERTY LINE	
			DIAPH	DIAPHRAGM	FWBT	FACING WESTBOUND TRAFFIC	MB	METAL BEAM		PM	POST MILE, TIME FROM NOC	N TO MIDNIGHT
		С	DIST	DISTANCE, DISTRICT	FWY	FREEWAY	MBB	METAL BEAM BARRIE	?	PN	PAVING NOTCH	
≥	CAA	CABLE ANCHOR ASSEMBLY	DMBB	DOUBLE METAL BEAM BARRIER		G	MBGR	METAL BEAM GUARD	RAILING	POB	POINT OF BEGINNING	
4	CAP	CORRUGATED ALUMINUM PIPE	DR	DRIVE	C		MED	MEDIAN		POC	POINT OF HORIZONTAL CUR	VE
)5:4	CAPA	CORRUGATED ALUMINUM PIPE ARCH	DTBB	DOUBLE THRIE BEAM BARRIER	G G A	ACCELERATION DUE TO GRAVITY GAGE	M-F	MERCED TO FRESNO		POE	POINT OF ENDING	
10.	CAS CB	CONSTRUCTION AREA SIGN CONCRETE BARRIER	DWY	DRIVEWAY	GALV	GALVANIZED	MH MIN	MANHOLE MINIMUM		POT POVC	POINT OF TANGENT POINT OF VERTICAL CURVE	
6	CBW	CONCRETE BLOCK WALL		E	GP	GRADING PLANE	MISC	MISCELLANEOUS		PP PP	PIPE PILE, PLASTIC PIPE,	
/20	C-C	CENTER TO CENTER	E	EAST, EASTING	GR	GUARD RAILING		MISCELLANEOUS IRON	AND STEEL	PPL	PREFORMED PERMEABLE LIN	
715			EA	ACTUAL SUPERELEVATION	GSP	GALVANIZED STEEL PIPE	MKR	MARKER		PPP	PERFORATED PLASTIC PIPE	
Μ.			EU	UNBALANCED SUPERELEVATION	GTR	GUTTER	M/L	MAIN LINE (RAILWAY		PRC	POINT OF REVERSE CURVE	
				JC ALAMILLA			<u> </u>		CALIFORNIA H	IIGH-SPEE	D RAIL PROJECT	CONTRACT NO. HSR14-42
				DRAWN BY JC ALAMILLA SUBSECTION						DALE TO B		DRAWING NO.
				CHECKED BY R. RODRIGUEZ REPUBLICATION CHECKED BY R. RODRIGUEZ REPUBLICATION CHECKED BY R. PEPU 01	SEN	NER CA				RBANK SUBSE		TT-B0004
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00				A. RELANO DATE NOT FOR			SPEED RAIL AUTH			GENERAL ABBREVIATIO	ONS	SHEET NO.
Q REV DAT	TE BY (CHK APP DESCRIPTION		02/01/2019 CONSTRUCTION						DDINE VIA IIC		



DATE

BY CHK APP

DESCRIPTION

NOT FOR

CONSTRUCTION

02/01/2019

GENERAL NOTES

W

WEST.

WIDTH

WESTBOUND

WEEP HOLE

WIRE MESH

WEIGHT

WITH

YEAR

YEARS

WINGWALL

CROSSING

WATER SURFACE

WATER VALVE

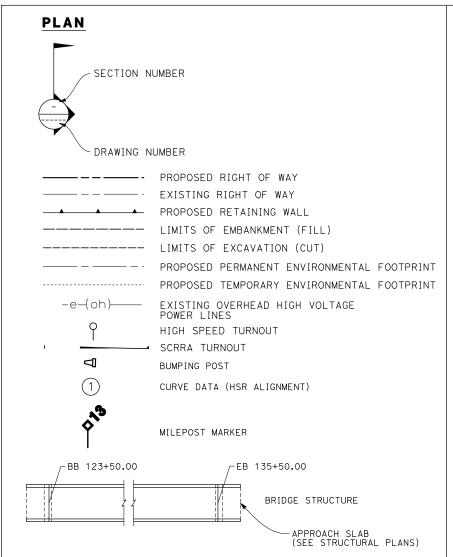
CROSS SECTION

WELDED STEEL PIPE

WINGWALL LAYOUT LINE

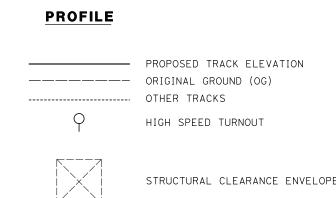
- 1. TRACK PROFILE IS DESIGNED AS CENTERLINE AT THE TOP OF THE SB LOW RAIL.
- 2. MINIMUM VERTICAL CLEARANCE REQUIREMENTS TO CANALS AND DITCHES ARE NOT KNOWN, FURTHER CONSULTATION WITH THE WATERCOURSE OWNERS WILL BE REQUIRED TO DETERMINE NECESSARY CLEARANCES. 3'-O" FREEBOARD HAS BEEN ALLOWED OVER THE 100-YEAR FLOOD LEVEL ELEVATIONS OF THE WASHES AND LA RIVER.
- 3. THE FOLLOWING ARE ROADWAY DESIGN STANDARD AND GUIDELINES: A. CALTRANS HIGHWAY DESIGN MANUAL (2006) B. AASHTO ROADSIDE DESIGN GUIDE (2006) C. APPLICABLE LOCAL DESIGN STANDARD AND GUIDELINES (I.E., CITY OF LOS ANGELES)
- 4. FOR ROADWAY IMPROVEMENTS, SEE ROADWAY PLANS.
- 5. FINAL SLOPES TO BE DEFINED AT A LATER STAGE, WHEN THE GEOTECHNICAL STUDY IS AVAILABLE.
- 6. STRUCTURE DIMENSIONS ARE INDICATIVE.

LEGEND



CALIFORNIA

HIGH-SPEED RAIL AUTHORITY





BURBANK SUBSECTION

GENERAL ABBREVIATIONS AND LEGEND

CONTRACT NO. HSR14-42
DRAWING NO. TT-B0005
SCALE NO SCALE

SHEET NO.

BURBANK SUBSECTION DRAFT PEPD REV 01 NOT FOR

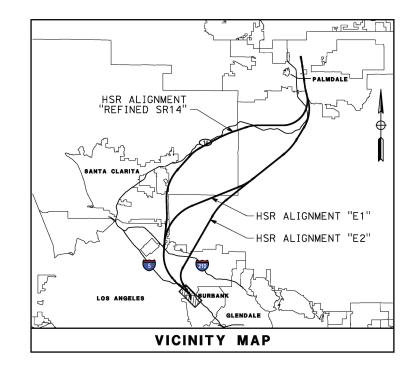
CONSTRUCTION

ALIGNMENT "REFINED SR14" -

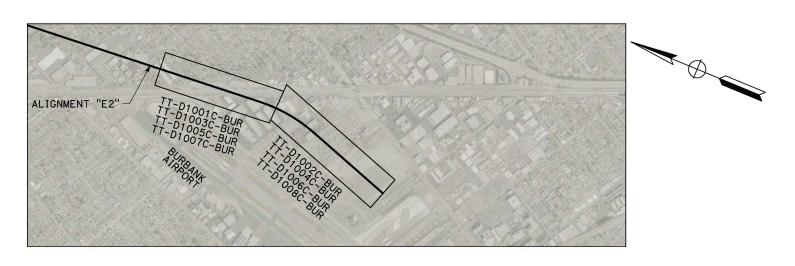
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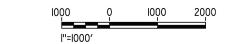


BURBANK AIRPORT STATION TRACKS



BURBANK	AIRPORT	STATION	TRACKS

	E1	REFINED SR14
MAINLINE	TT-D1001B-BUR	TT-D1001A-BUR
SB STATION TRACK	TT-D1002B-BUR	TT-D1002A-BUR
NB STATION TRACK	TT-D1003B-BUR	TT-D1003A-BUR
NB REFUGE TRACK	TT-D1004B-BUR	TT-D1004A-BUR
	E2	2
MAINLINE	TT-D1001C-BUR	TT-D1002C-BUR
SB STATION TRACK	TT-D1003C-BUR	TT-D1004C-BUR
NB STATION TRACK	TT-D1005C-BUR	TT-D1006C-BUR
NB REFUGE TRACK	TT-D1007C-BUR	TT-D1008C-BUR

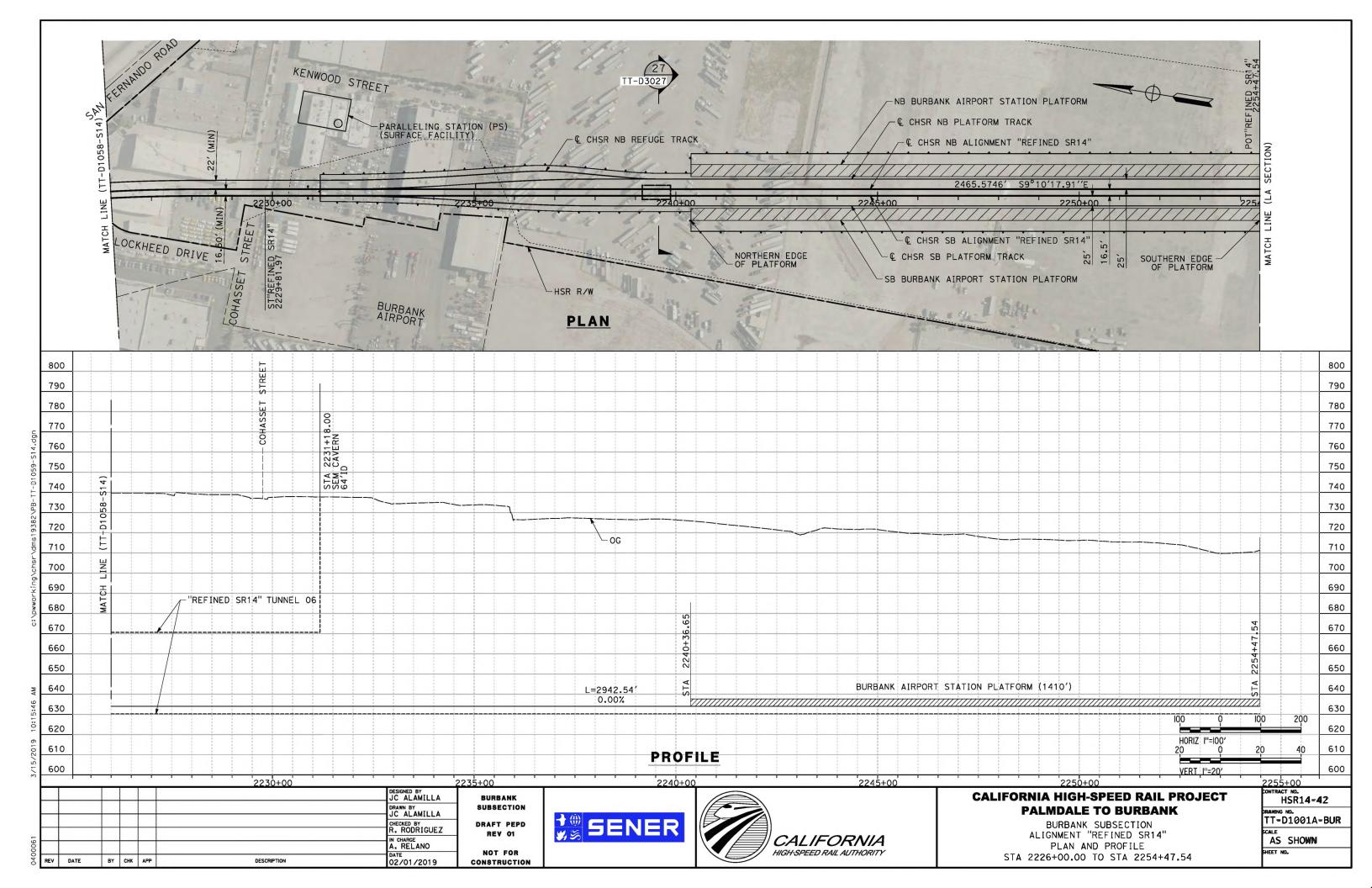


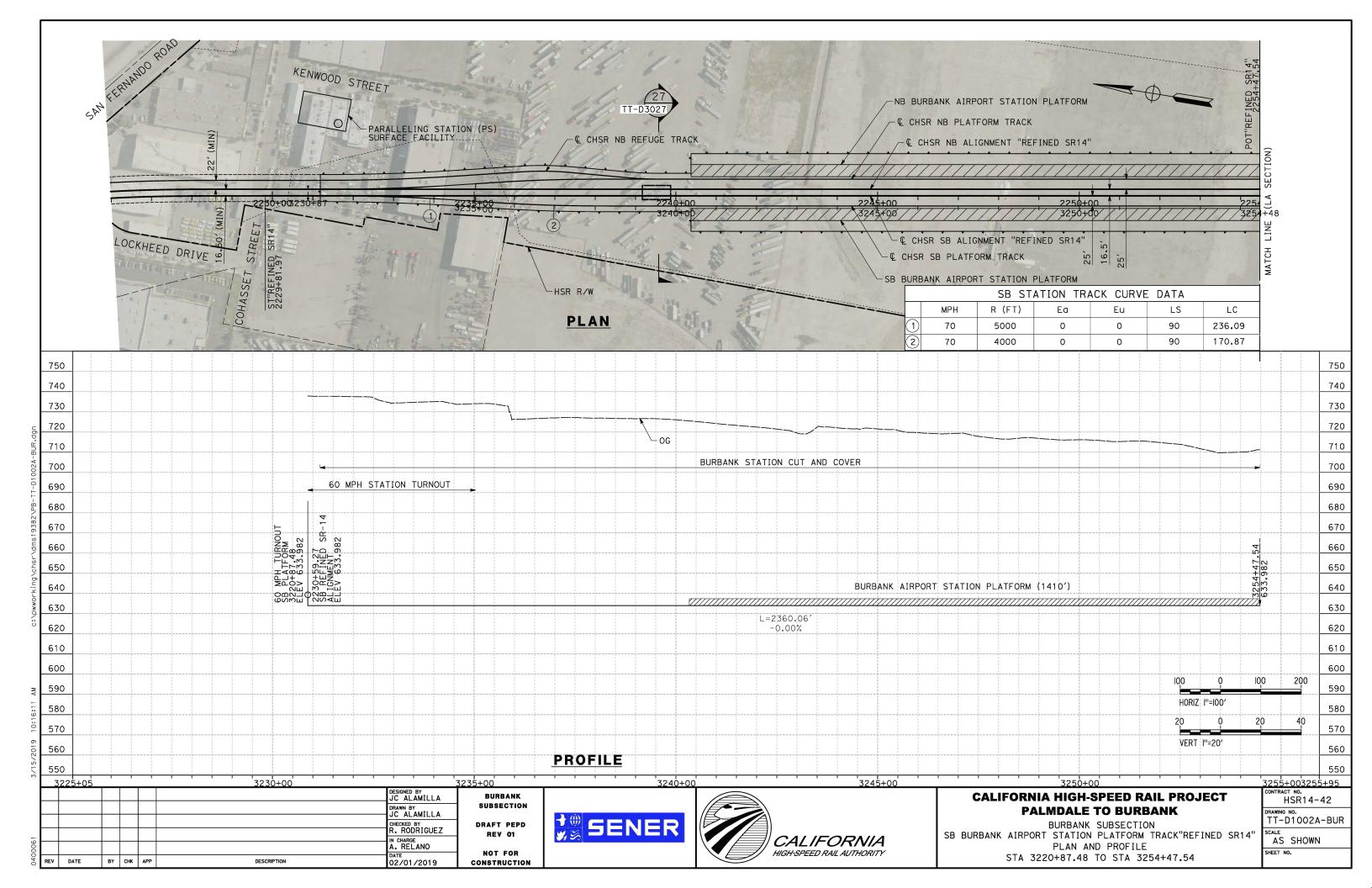
CALIFORNIA HIGH-SPEED RAIL PROJECT PALMDALE TO BURBANK

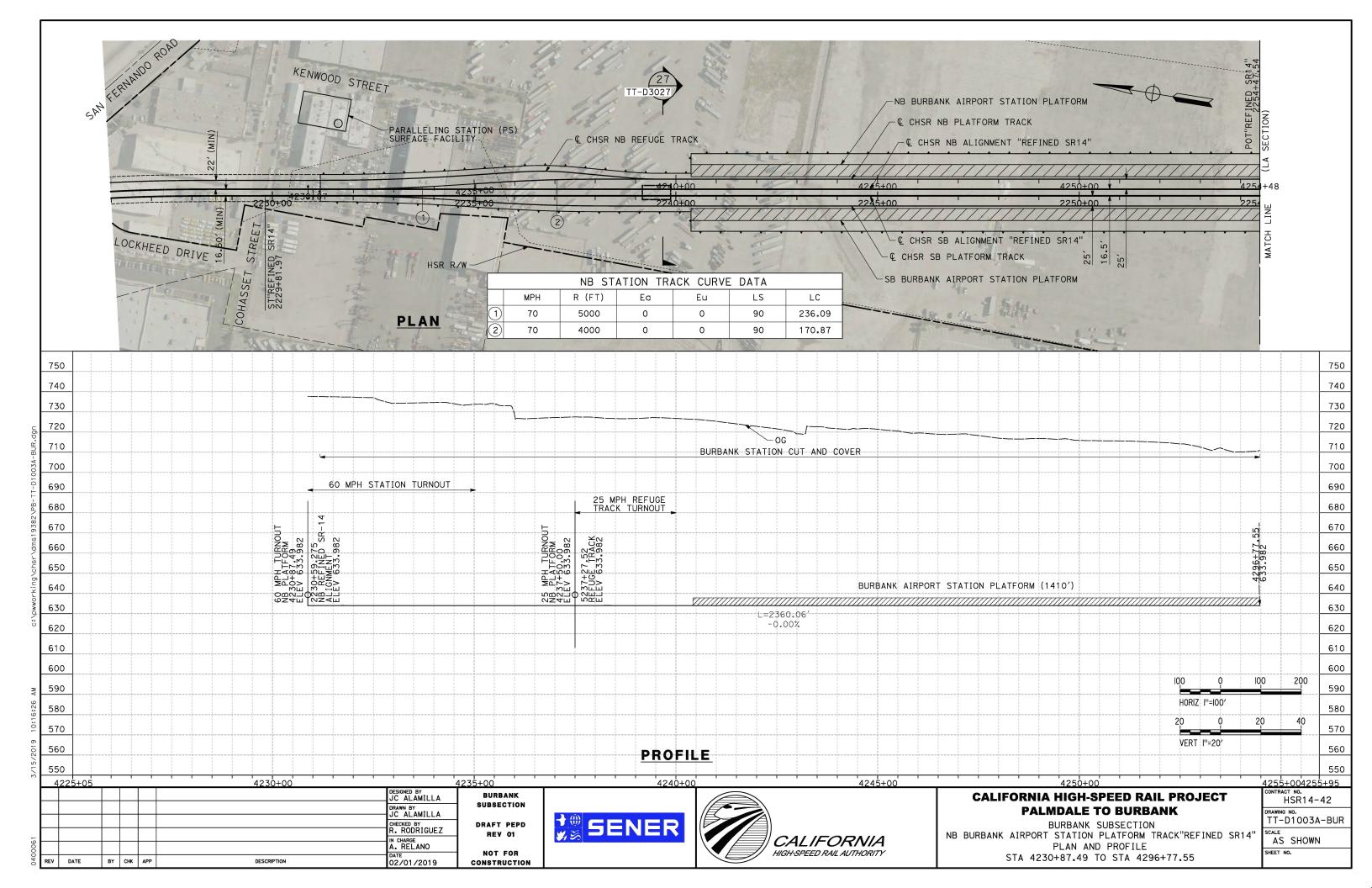
BURBANK SUBSECTION

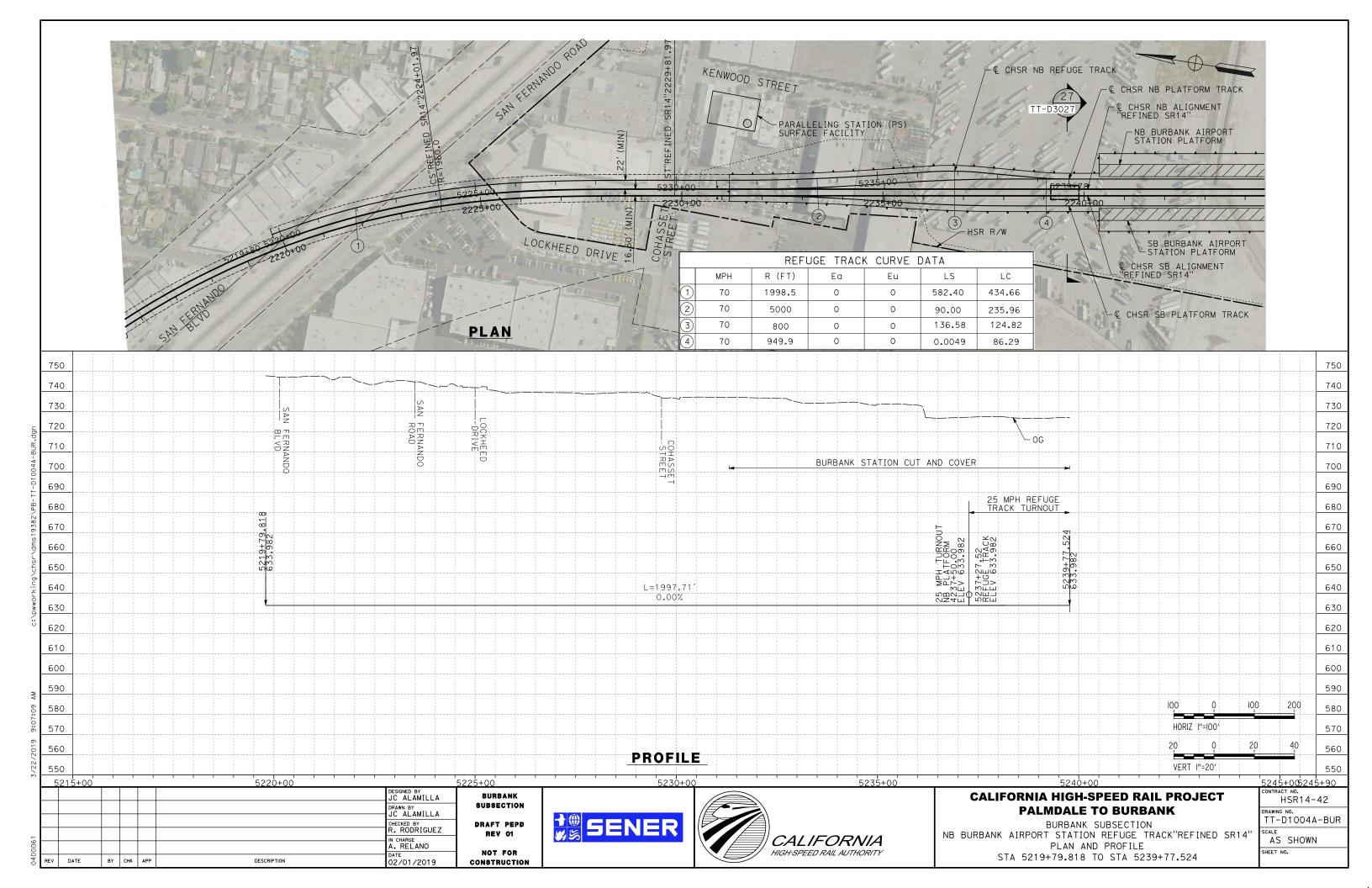
HIGH SPEED RAIL PLANS KEY MAP

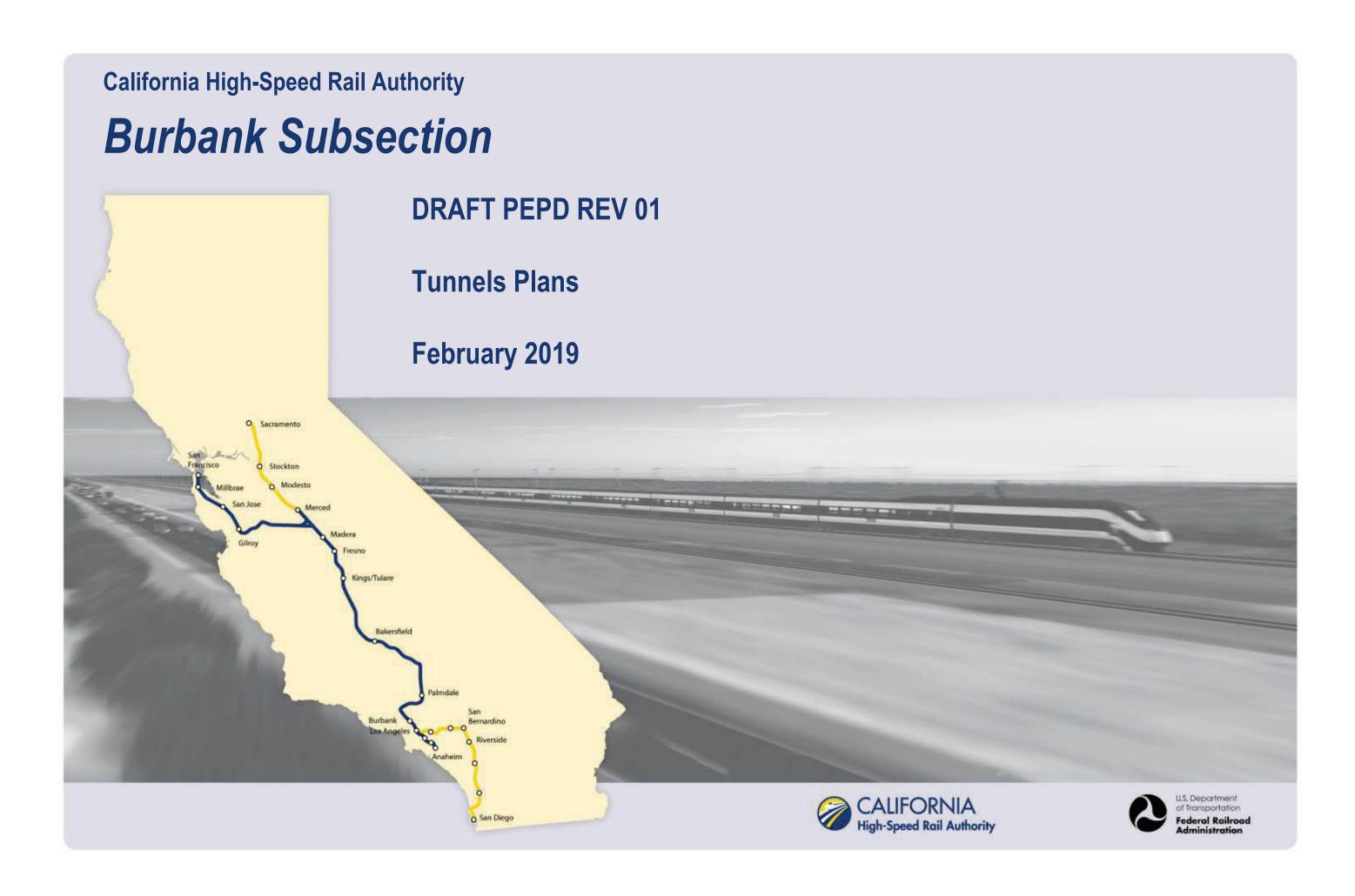
CONTRACT NO. HSR14-42
DRAWING NO. TT-C6001-BUF
SCALE AS SHOWN
SHEET NO.











GENERAL

DRAWING NO.	DRAWING DESCRIPTION	SHEET NO.
TN-B0003	INDEX OF DRAWINGS	
TN-B0004	ABBREVIATIONS AND LEGEND	
TN-B0005	FAULT KEY MAP	
TN-B0007	SCHEMATIC LINEAR DIAGRAMS	

BURBANK AIRPORT STATION

DRAWING NO.	DRAWING DESCRIPTION	SHEET NO.
TN-B6002-S14	KEY MAP - HIGH SPEED RAIL TUNNEL PLANS	
TN-D4038-S14	PLAN	
TN-Y1021-S14	PROFILE	

TYPICAL SECTIONS AND DETAILS

DRAWING NO.	DRAWING DESCRIPTION	SHEET NO.
TN-C0902	TUNNEL TYPICAL SECTION AND DETAILS. SEM SINGLE TUNNEL, 2 TRACKS+REFUGE TRACK. CLEARANCE DIAGRAM - TANGENT & SUPERELEVATED TRACK	
TN-C0903	CONSTRUCTION SEQUENCE AND SUPPORT MEASURES - SEM SINGLE TUNNEL, 2 TRACKS+REFUGE TRACK	
TN-C1104	SINGLE CELL BOX 2 TRACKS + REFUGE TRACK CUT-AND-COVER TUNNEL. TYPICAL SECTION	
TN-C1105	SINGLE CELL 4 TRACKS + REFUGE TRACK CUT-AND-COVER TUNNEL. TYPICAL SECTION	
TN-C1106	SINGLE CELL 4 TRACKS, CUT-AND-COVER TUNNEL, TYPICAL SECTION	
TN-C1109	BURBANK STATION PLATFORM. CUT-AND-COVER TUNNEL. TYPICAL SECTION	

							DESIGNED BY E.VELASCO	
							DRAWN BY FJ.DOMINGUEZ	1
							CHECKED BY A.NAVARRO	DRA
5240							IN CHARGE A.RELAÑO	
02052	REV	DATE	BY	СНК	APP	DESCRIPTION	DATE 02/01/2019	C

BURBANK SUBSECTION RAFT PEPD REVOI NOT FOR CONSTRUCTION



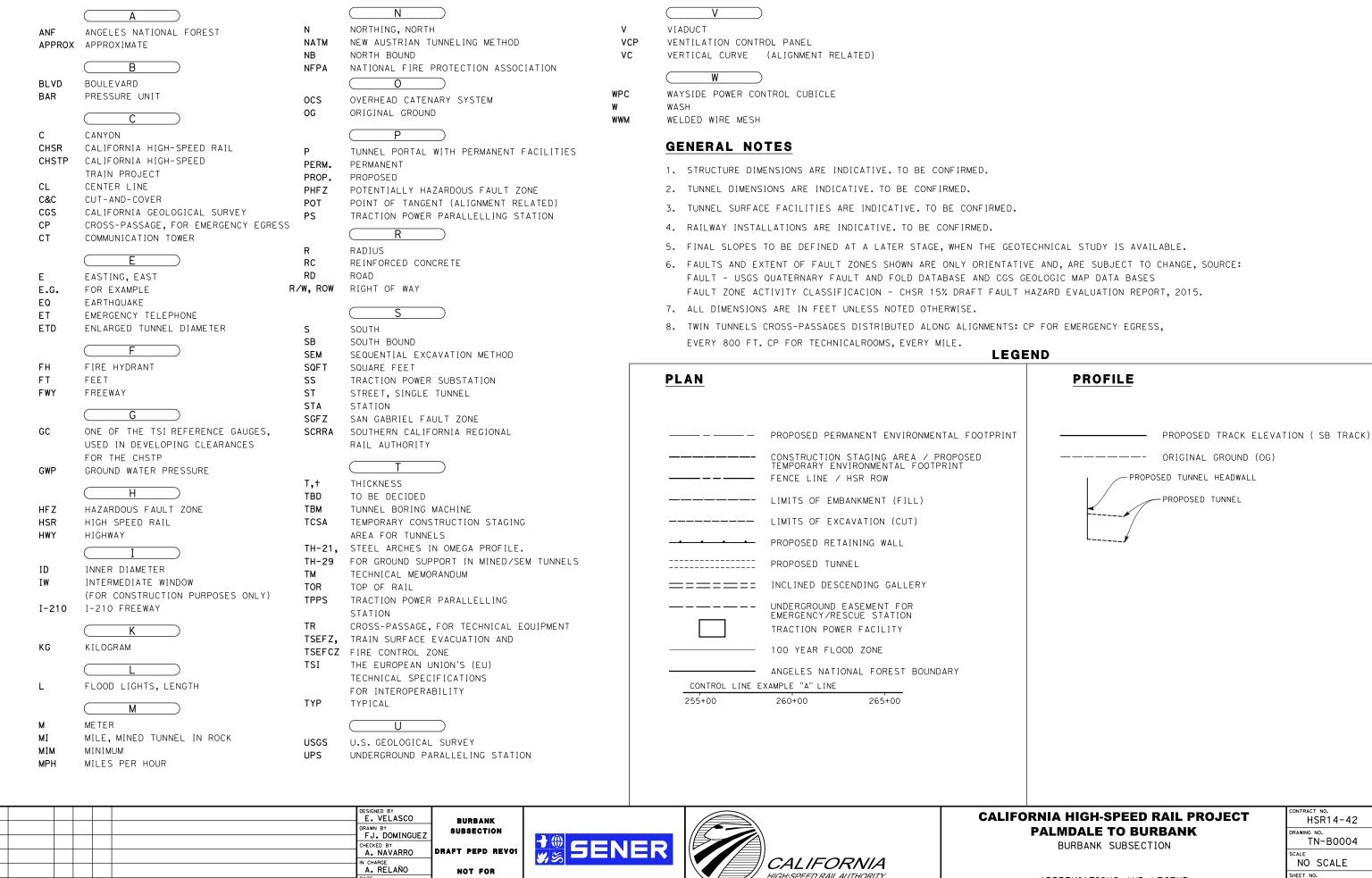


CALIFORNIA HIGH-SPEED RAIL PROJECT PALMDALE TO BURBANK

BURBANK SUBSECTION

HSR14-42 TN-B0003 NO SCALE

INDEX OF DRAWINGS





CONSTRUCTION

02/01/2019

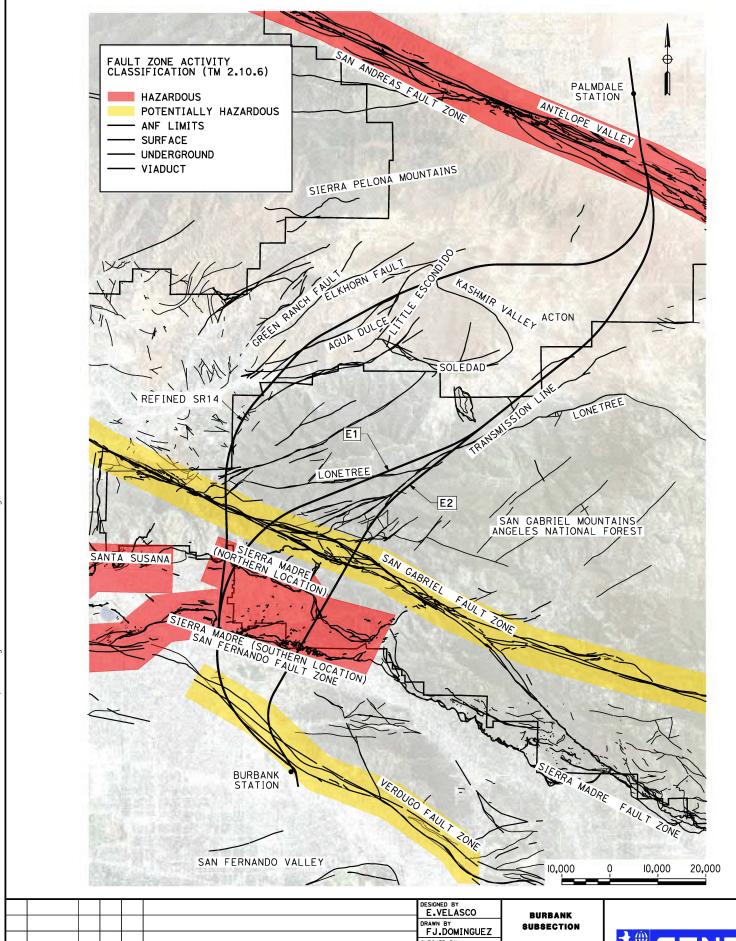
DATE

BY CHK APP

DESCRIPTION



ABBREVIATIONS AND LEGEND



NOTE:

PRELIMINARY DRAFT/SUBJECT TO CHANGE

SOURCE:

FAULTS - USGS QUATERNARY FAULT AND FOLD DATABASE AND CGS GEOLOGIC MAP DATABASES FAULT ZONE ACTIVITY CLASSIFICATION - CHSR 15% DRAFT FAULT HAZARD EVALUATION REPORT, 2015.

REV DATE BY CHK APP DESCRIPTION DATE 02/01/2019 CONSTRUCTION
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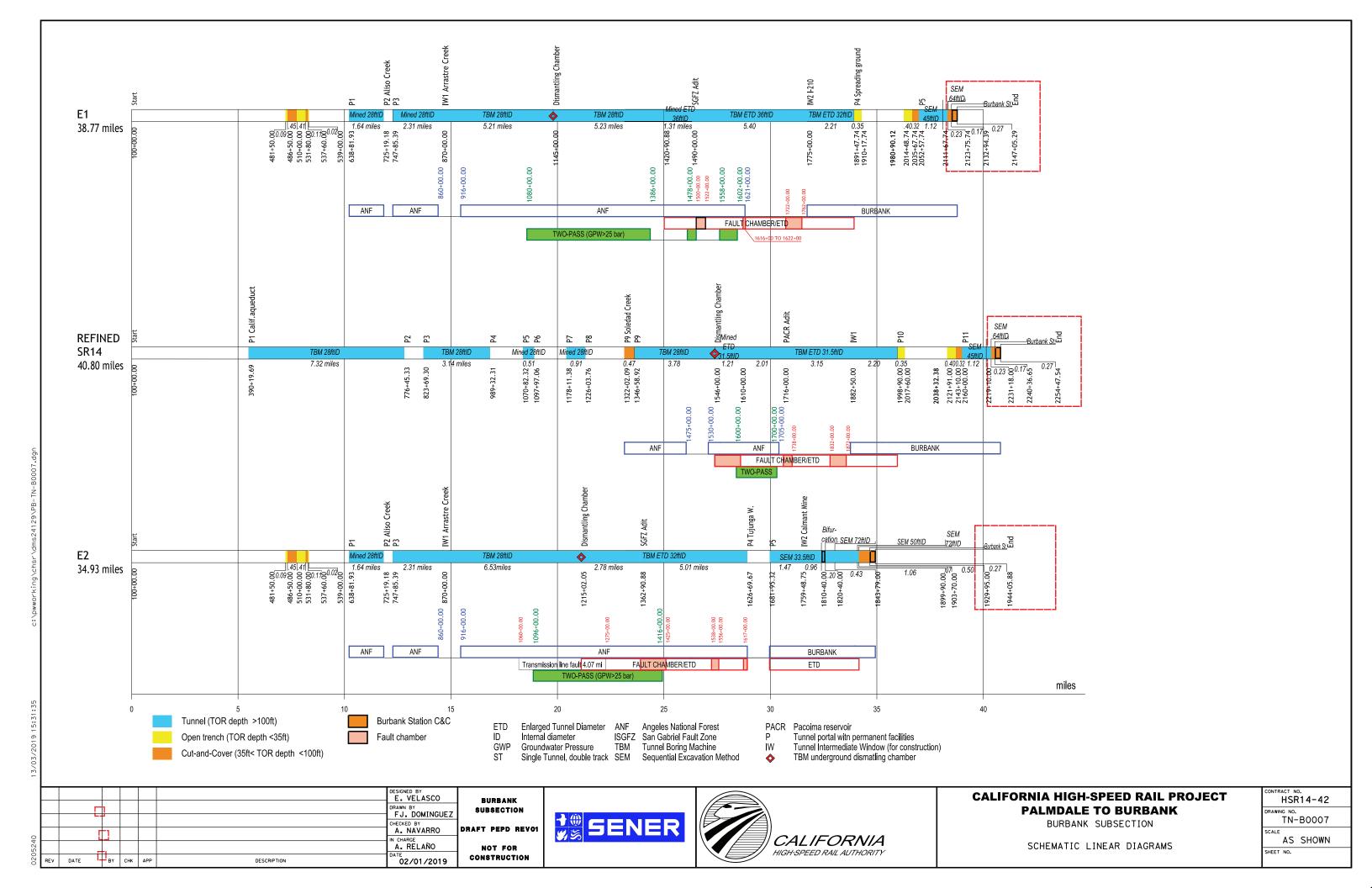
CALIFORNIA HIGH-SPEED RAIL PROJECT PALMDALE TO BURBANK

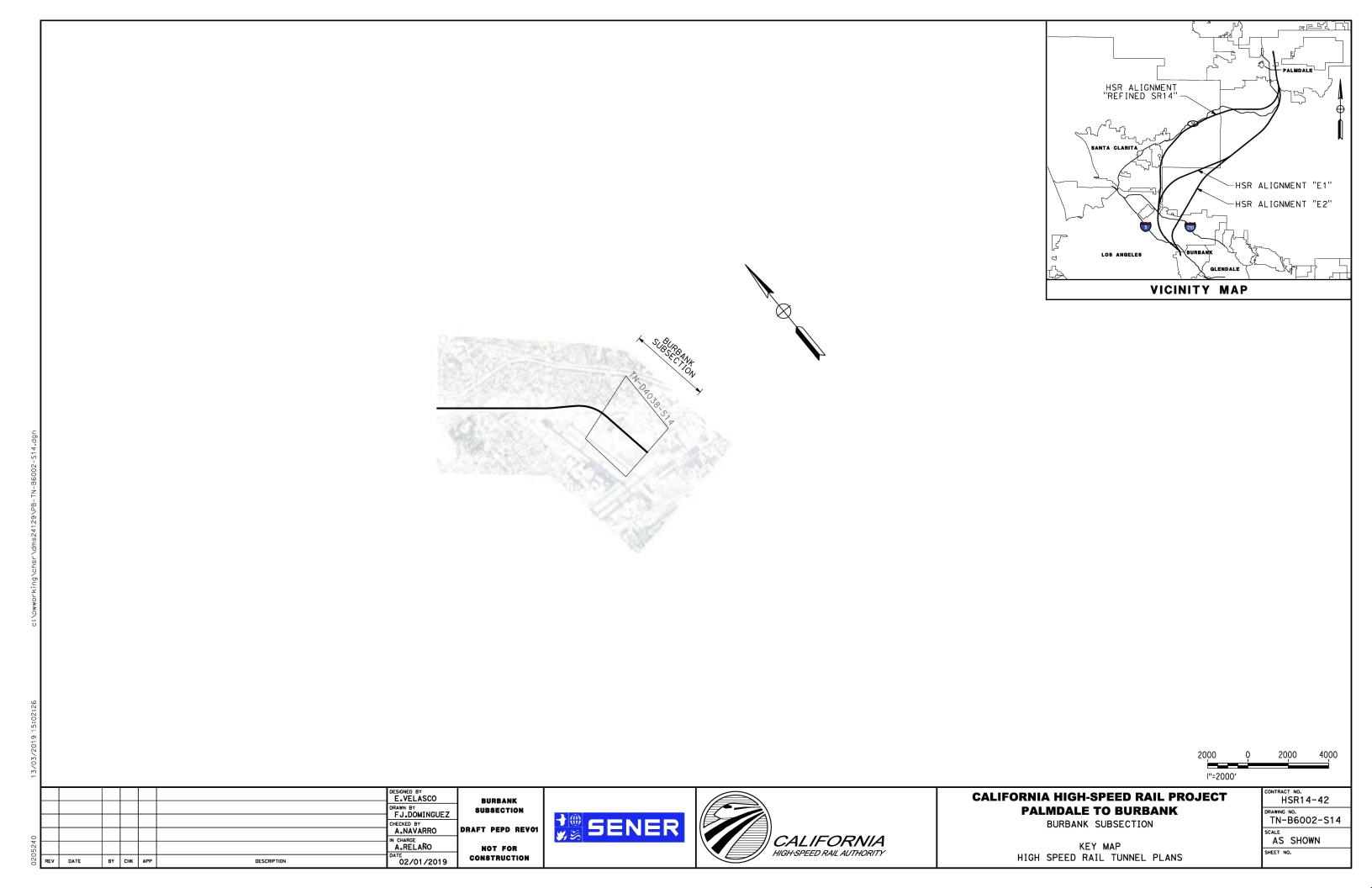
BURBANK SUBSECTION

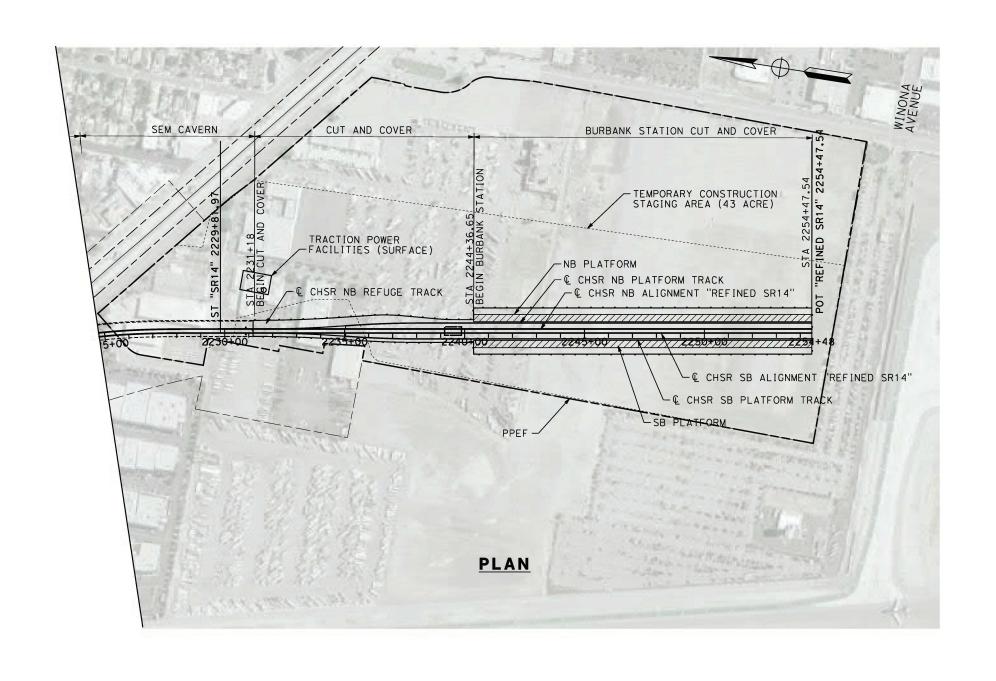
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- 1	AS SHOWN
	AS SHOWN
SI	EET NO.

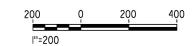
FAULT KEY MAP

HSR14-42 DRAWING NO.
TN-B0005









							DESIGNED BY E.VELASCO	
							DRAWN BY FJ.DOMINGUEZ	8
							CHECKED BY	
0							A.NAVARRO IN CHARGE	DRAF
324							A.RELAÑO	
020	REV	DATE	BY	СНК	APP	DESCRIPTION	02/01/2019	CO

BURBANK SUBSECTION DRAFT PEPD REVO1 NOT FOR CONSTRUCTION



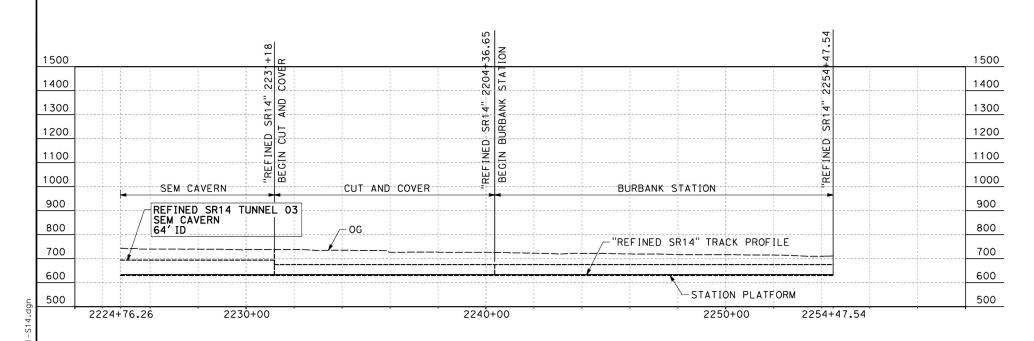


CALIFORNIA HIGH-SPEED RAIL PROJECT PALMDALE TO BURBANK

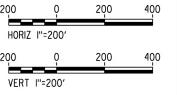
BURBANK SUBSECTION

PLAN

CONTRACT NO. HSR14-42
DRAWING NO. TN-D4038-S14
AS SHOWN



PROFILE



NOIL: Fault zones

FAULT ZONES LIMITS APPROXIMATE ONLY

	DESIGNED BY E.VELASCO							
SU	DRAWN BY FJ.DOMINGUEZ							
	CHECKED BY							
DRAFT	A.NAVARRO IN CHARGE							0
	A.RELAÑO						7	524
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ENSTRUCTION

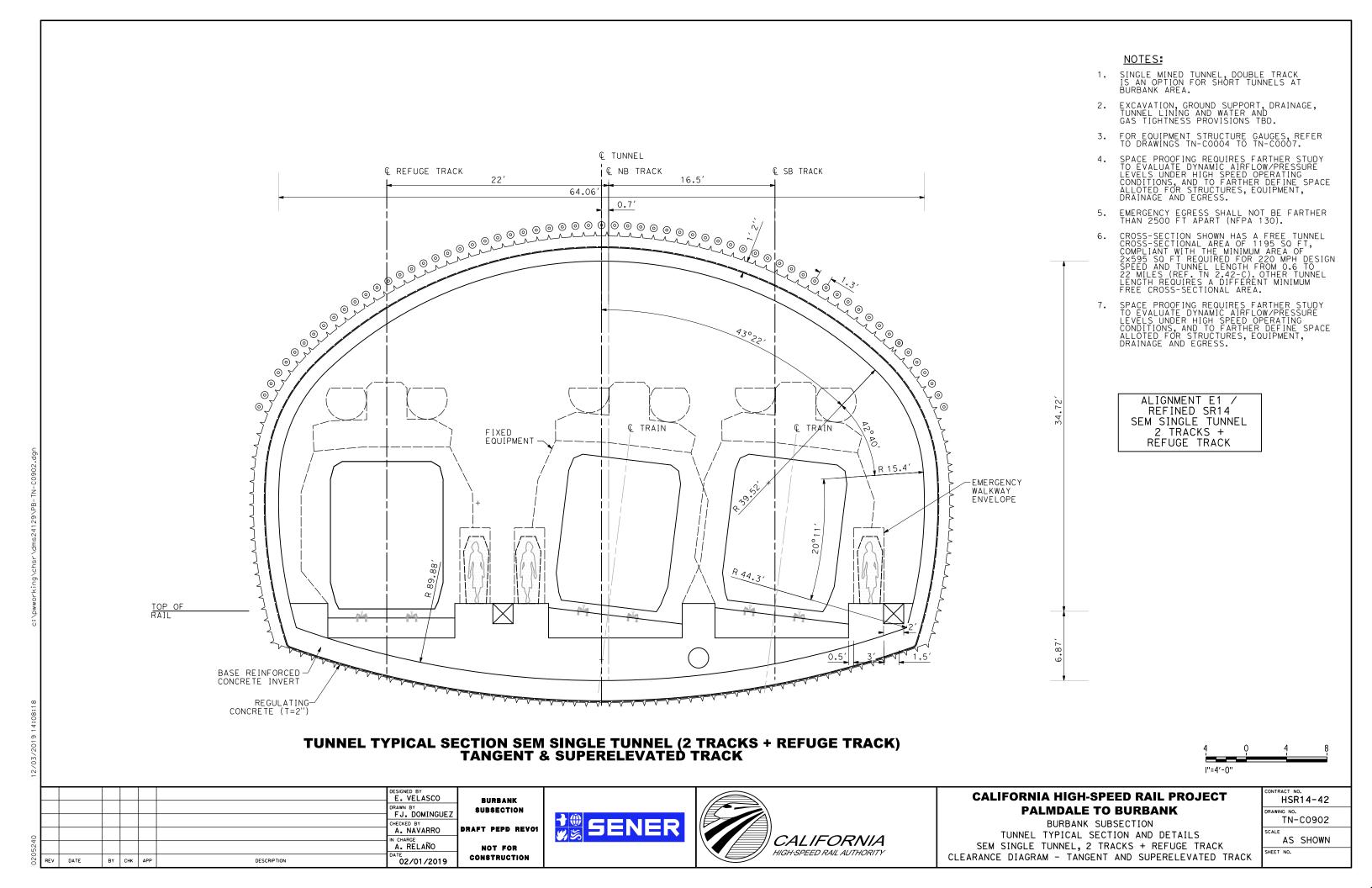




CALIFORNIA HIGH-SPEED RAIL PROJECT PALMDALE TO BURBANK BURBANK SUBSECTION

BURBANK SUBSECTION PROFILE

CONTRACT NO. HSR14-42
DRAWING NO. TN-Y1021-S14
AS SHOWN
SHEET NO.



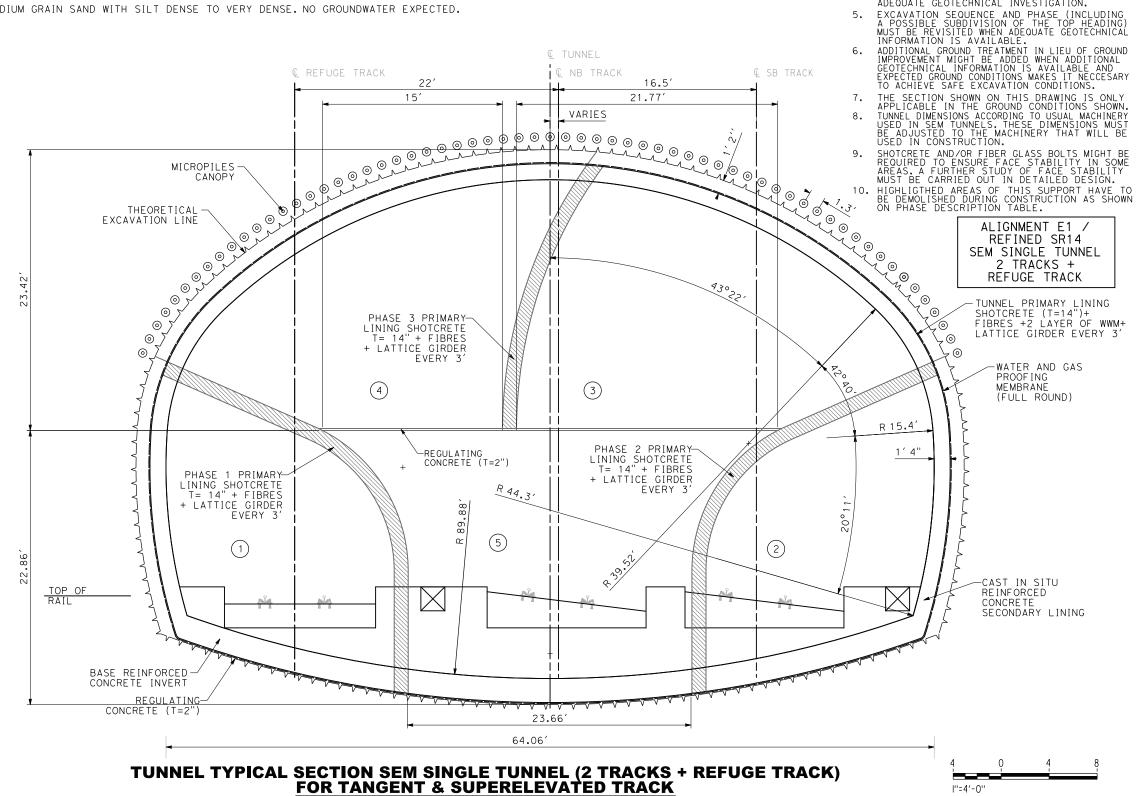
BASIC QUAN	BASIC QUANTITIES PER FT OF TUNNEL						
CEM CINCLE TUNNEL	PRIMARY LINING TYPE						
SEM SINGLE TUNNEL	SEM SINGLE TUNNEL						
EXCAVATION AREA (SQ.FT.)	2641.3						
TUNNEL PRIMARY LINING AREA (SQ.FT.)	155.7						
REGULATING CONCRETE (2 in) (SQ.FT.) (INVERT)	10.6						
LATTICE GIRDER (FT)	125/3=41.7						
WATER & GAS PROOFING MEMBRANE (FT)	185.9						
FORMWORK (FT)	114						
SECONDARY LINING AREA CONCRETE (sides&crown) (SQ.FT.)	154						
SECONDARY LINING AREA CONCRETE (invert) (SQ.FT.)	128.5						
MICROPILES CANOPY (FT)	83.8						
PHASE 1, 2,3 PRIMARY LINING (SQ.FT.)	116.4						
PHASE 1, 2, 3 LATTICE GIRDER (FT)	105.1/3=35						
PHASE 3 AND 4 (SQ.FT.) REGULATING CONCRETE	6.4						

DESCRIPTION

PHASE

PRIMARY LINING (EXAMPLE ONLY, NOT ACTUAL DESIGN)								
DENOMINATION	SHOTCRETE THICKNESS (in)	STEEL ARCHES	REINFORCEMENT	ADVANCE LENGTH (f†)	PIPE CANOPY			
*SOIL CONDITIONS	14	LATTICE GIRDER EVERY 3'	FIBRES & 2 LAYERS WWM	3' TOP HEADING AND PHASE1 6' BENCH	YES			

*FINE-MEDIUM GRAIN SAND WITH SILT DENSE TO VERY DENSE. NO GROUNDWATER EXPECTED.



0	-MICROPILES CANOPY INSTALLATION (EVERY 30')
1&2	-EXCAVATION OF PHASES 1 AND 2, AND APPLICATION OF A STABILIZATION LAYER OF SHOTCRETEINSTALLATION OF LATTICE GIRDERS OF PHASES 1 AND 2SPRAYING OF REINFORCING SHOTCRETE + 2 LAYERS OF WWMINSTALLATION OF WATER AND GAS PROOFING MEMBRANEINSTALLATION OF INNER LINING (SECONDARY). FIRST INVERT AND SECOND SIDE.
3	-EXCAVATION OF PHASE 3 AND APPLICATION OF A STABILIZATION LAYER OF SHOTCRETEINSTALLATION OF LATTICE GIRDERS OF PHASE 3SPRAYING OF REINFORCING SHOTCRETE + 2 LAYERS OF WWMINSTALLATION OF WATER AND GAS PROOFING MEMBRANEINSTALLATION OF INNER LINING (SECONDARY). FIRST INVERT AND SECOND SIDE.
4	-EXCAVATION OF PHASE 4, AND APPLICATION OF A STABILIZATION LAYER OF SHOTCRETEDEMOLITION OF TEMPORAL SUPPORT OF PHASE 3 AND INSTALLATION OF LATTICE GIRDERS OF PHASE 4SPRAYING OF REINFORCING SHOTCRETE + 2 LAYERS OF WWMDEMOLITION OF THE UPPER PART OF TEMPORAL SUPPORT OF PHASES 1 AND 2 -INSTALLATION OF WATER AND GAS PROOFING MEMBRANEINSTALLATION OF INNER LINING (SECONDARY) IN CROWN (PHASES 3 AND 4).
5	-EXCAVATION OF PHASE 5.

*NOTE: DISTANCE BETWEEN EXCAVATION PHASES TO BE DEFINED.

PHASES 1 AND 2

-DEMOLITION OF THE UPPER PART OF TEMPORAL SUPPORT OF

-INSTALLATION OF WATER AND GAS PROOFING MEMBRANE. -INSTALLATION OF INNER LINING (SECONDARY) IN INVERT.

DESIGNED BY
E. VELASCO BURBANK SUBSECTION FJ. DOMINGUEZ CHECKED BY PRAFT PEPD REVO N CHARGE A. RELAÑO NOT FOR CONSTRUCTION DESCRIPTION 02/01/2019





CALIFORNIA HIGH-SPEED RAIL PROJECT PALMDALE TO BURBANK

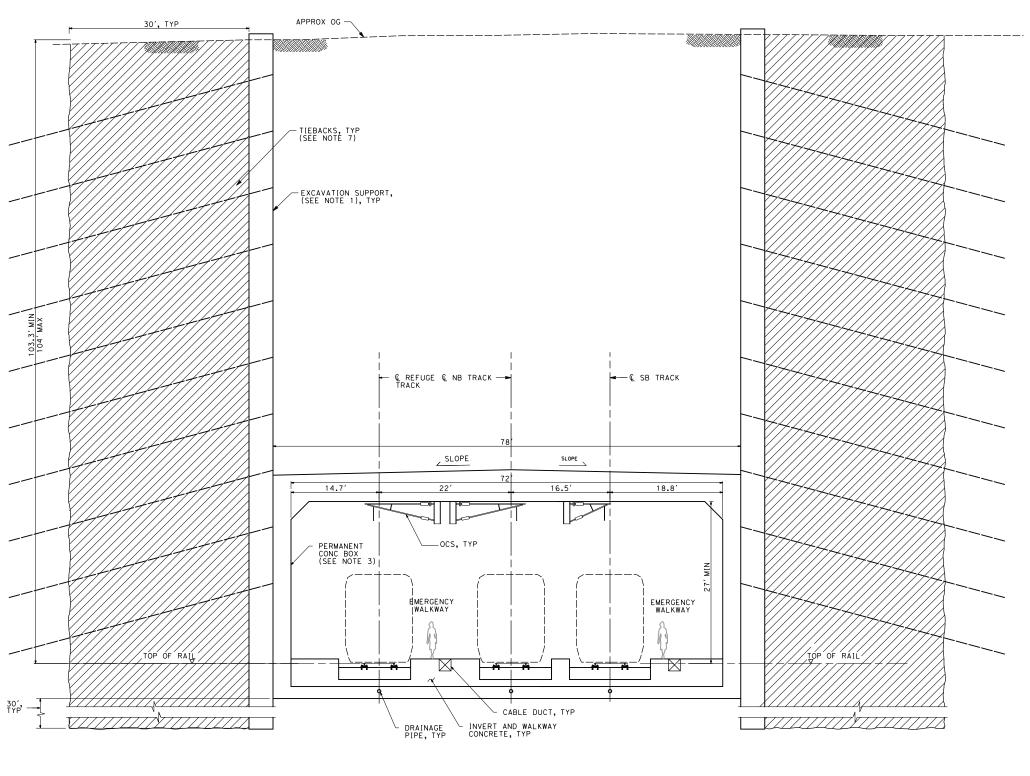
NOTES:

SINGLE SEM TUNNEL, DOUBLE TRACK IS AN OPTION FOR SHORT TUNNELS AT BURBANK AREA. THIS DRAWING IS NOT ACTUAL DESIGN. ITS PURPOSE IS TO BUILD UNIT PRICES AT PEPD LEVEL. EXCAVATION, GROUND SUPPORT, DRAINAGE, TUNNEL LINING AND WATER AND GAS TIGHTNESS PROVISIONS TBD. TYPICAL SUPPORT MEASURES AND INNER LINING THICKNESSES ARE GIVEN WITH ORIENTATIVE PURPOSES ONLY. ACTUAL DESIGN WILL REQUIRE RESULTS OF ADEQUATE GEOTECHNICAL INVESTIGATION.

BURBANK SUBSECTION

CONSTRUCTION SEQUENCE AND SUPPORT MEASURES SEM SINGLE TUNNEL, 2 TRACKS + REFUGE TRACK

HSR14-42 TN-C0903 AS SHOWN



- TYPES, LOCATIONS AND DIMENSIONS OF EXCAVATION SUPPORT NOT DESIGNED. RIGID EXCAVATION SUPPORTS WITH TIEBACKS AND TEMPORARY INTERNAL BRACING ANTICIPATED.
- 2. PERMANENT LINING ASSUMED WATERTIGHT/UNDRAINED IN PERMANENT CASE.
- 3. STRUCTURE COMPONENTS ARE NOT DESIGNED, DRAWINGS NOT BASED ON ACTUAL DESIGN AND ARE DEVELOPED FOR PRELIMINARY COST ESTIMATE.
- 4. TRACK, OPENINGS, PLATFORM, STATION LAYOUT, CABLE DUCTS AND DRAINAGE ARE SCHEMATIC AND DO NOT REPRESENT DESIGN.
- 5. EQUIPMENT AND STRUCTURE GAUGES NOT SHOWN, REFER TO DRAWINGS TN-CO006 AND TN-CO007 FOR FIXED EQUIPMENT ENVELOPE AND STRUCTURE GAUGE.
- 6. GROUND IMPROVEMENT ANTICIPATED IN THIS AREA. LIMITS OF GROUND IMPROVEMENT TO BE DETERMINED AFTER GEOTECHNICAL INVESTIGATIONS ARE COMPLETED.
- 7. TIEBACKS OR GROUND ANCHORS ARE ANTICIPATED FOR WALLS WITH AN EXPOSED HEIGHT GREATER THAN 20 FT. CANTILEYER SOLDIER PILE WALLS ARE ANTICIPATED FOR WALLS WITH AN EXPOSED HEIGHT LESS THAN 20 FT.
- 8. TYPICAL SECTION ON THIS SHEET IS APPLICABLE AT THE FOLLOWING LOCATIONS:

ALIGNMENT	SUB-SECTION	BEGIN STA	END STA
REFINED SR14	BURBANK	2231+18.00	2231+77.00

CONSTRUCTION SEQUENCE:

STAGE	DESCRIPTION
0	INSTALL MOVEMENT MONITORING SYSTEMS
1	INSTALL GROUND IMPROVEMENT
2*	INSTALL RIGID EXCAVATION SUPPORT SYSTEMS USING HEAVILY REINFORCED SLURRY WALLS
3A	EXCAVATE IN LIFTS FROM ORIGINAL GROUND
3B	DEWATER AS NEEDED
3C	INSTALL TIEBACKS AND/OR TEMPORARY INTERNAL BRACING AS REQUIRED FOR THE SYSTEM STABILITY
4	REPEAT STAGE 3 TO BOTTOM OF STATION/TUNNEL GRADE SLAB
5	CONSTRUCT BOTTOM GRADE SLAB AND TIE IN TO THE EXCAVATION SUPPORT AS A PERMANENT BRACING SYSTEM
6	CONSTRUCT THE INTERIOR OF THE STATION/TUNNEL (INTERIOR WALLS, SLABS)
7	CONSTRUCT STATION/TUNNEL ROOF SLAB AND TIE IN TO THE EXCAVATION SUPPORT SYSTEM AS PERMANENT BRACING SYSTEM
8	WATERPROOF THE ROOF SLAB, BACKFILL AND RESTORE THE GROUND

* SLURRY WALLS ARE ONE TYPE OF COMMON RIGID EXCAVATION SUPPORT SYSTEM. OTHER SUITABLE RIGID EXCAVATION SUPPORT SYSTEMS SUCH AS TANCENT/SECANT PILES MIGHT BE CONSIDERED FOR THIS LOCATION. HEAVY REINFORCEMENT WILL BE REQUIRED.

LEGEND:

GROUND IMPROVEMENT ZONE (SEE NOTE 6)





							E.VELASCO	BURBANK
							FJ.DOMINGUEZ	SUBSECTION
							CHECKED BY	DRAFT PEPD REVOI
,							A. NAVARRO IN CHARGE	DRAFI PEPD REVO
,							A.RELAÑO	NOT FOR
1	REV	DATE	ВҮ	СНК	APP	DESCRIPTION	02/01/2019	CONSTRUCTION



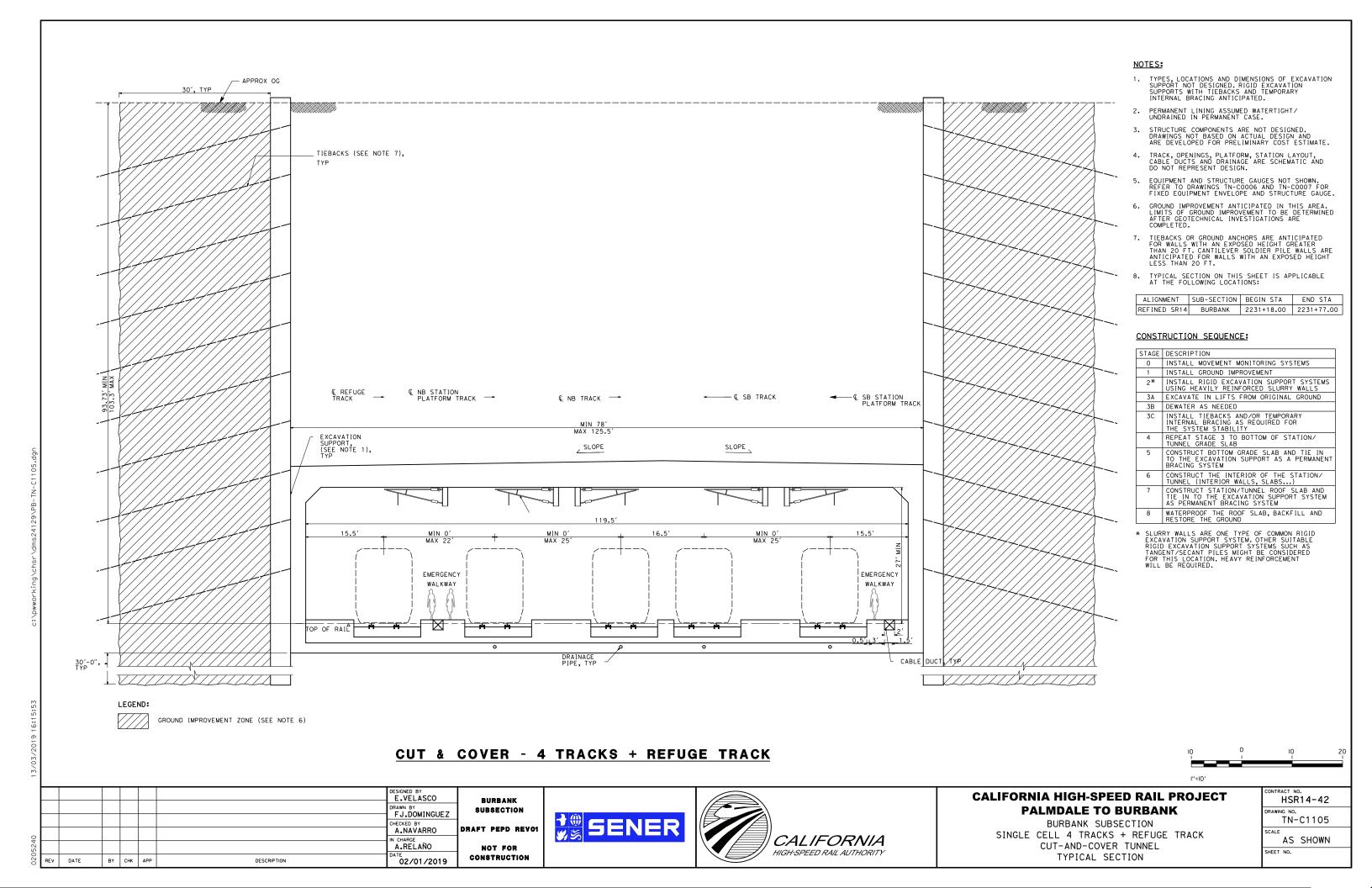


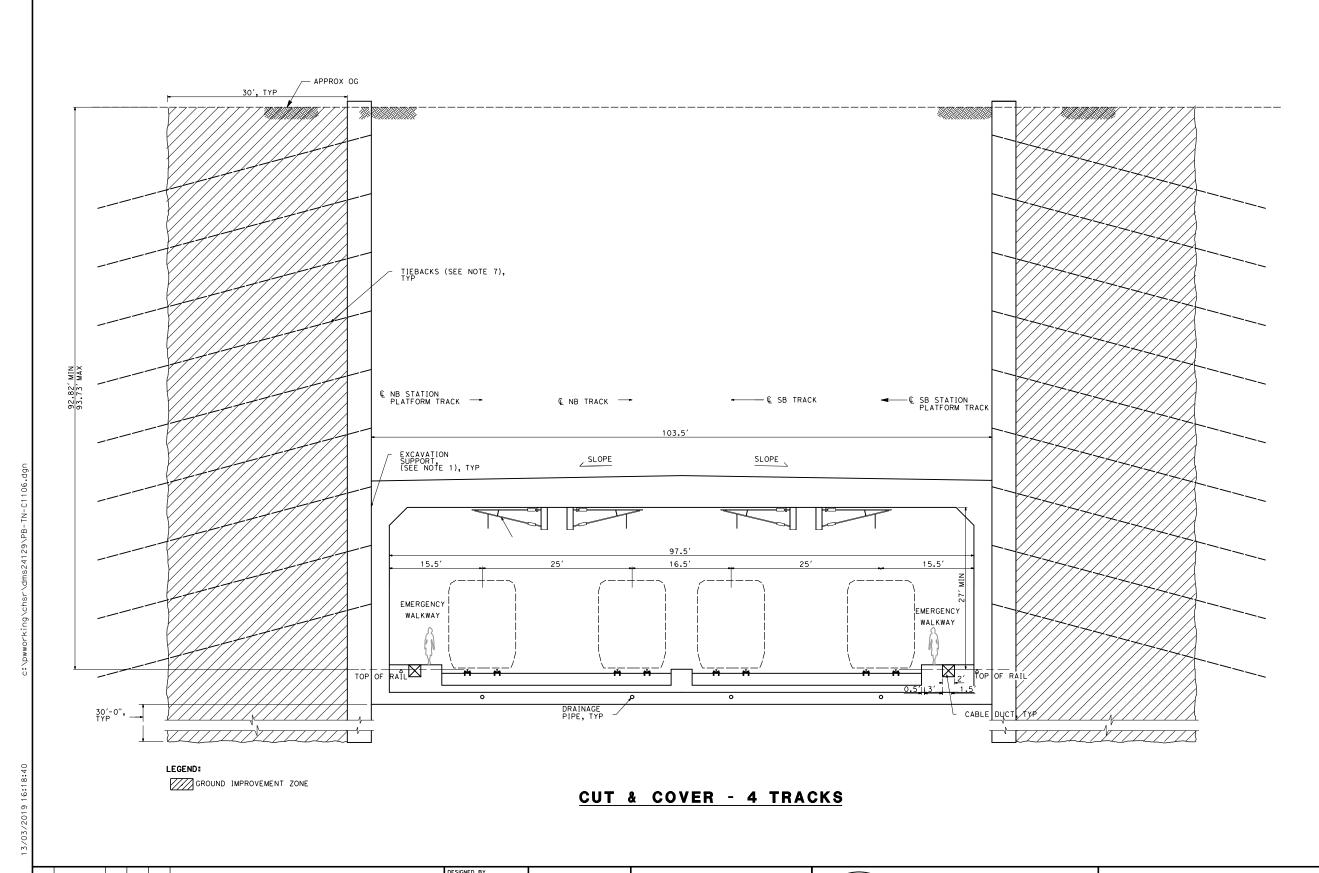
CALIFORNIA HIGH-SPEED RAIL PROJECT PALMDALE TO BURBANK

BURBANK SUBSECTION SINGLE CELL BOX 2 TRACKS + REFUGE TRACK CUT-AND-COVER TUNNEL TYPICAL SECTION

CONTRACT NO.
HSR14-42
DRAWING NO.
TN-C1104
SCALE
AS SHOWN

SHEET NO.





NOTES:

- TYPES, LOCATIONS AND DIMENSIONS OF EXCAVATION SUPPORT NOT DESIGNED. RIGID EXCAVATION SUPPORTS WITH TIEBACKS AND TEMPORARY INTERNAL BRACING ANTICIPATED.
- 2. PERMANENT LINING ASSUMED WATERTIGHT/ UNDRAINED IN PERMANENT CASE.
- . STRUCTURE COMPONENTS ARE NOT DESIGNED.
 DRAWINGS NOT BASED ON ACTUAL DESIGN AND
 ARE DEVELOPED FOR PRELIMINARY COST ESTIMATE.
- TRACK, OPENINGS, PLATFORM, STATION LAYOUT, CABLE DUCTS AND DRAINAGE ARE SCHEMATIC AND DO NOT REPRESENT DESIGN.
- 5. EQUIPMENT AND STRUCTURE GAUGES NOT SHOWN.
 REFER TO DRAWINGS TN-C0006 AND TN-C0007 FOR
 FIXED EQUIPMENT ENVELOPE AND STRUCTURE GAUGE.
- 6. GROUND IMPROVEMENT ANTICIPATED IN THIS AREA. LIMITS OF GROUND IMPROVEMENT TO BE DETERMINED AFTER GEOTECHNICAL INVESTIGATIONS ARE COMPLETED.
- 7. TIEBACKS OR GROUND ANCHORS ARE ANTICIPATED FOR WALLS WITH AN EXPOSED HEIGHT GREATER THAN 20 FT. CANTILEVER SOLDIER PILE WALLS ARE ANTICIPATED FOR WALLS WITH AN EXPOSED HEIGHT LESS THAN 20 FT.
- 8. TYPICAL SECTION ON THIS SHEET IS APPLICABLE AT THE FOLLOWING LOCATIONS:

ALIGNMENT	SUB-SECTION	BEGIN STA	END STA	
REFINED SR14	BURBANK	2231+18.00	2231+77.00	

CONSTRUCTION SEQUENCE:

STAGE	DESCRIPTION
0	INSTALL MOVEMENT MONITORING SYSTEMS
1	INSTALL GROUND IMPROVEMENT
2*	INSTALL RIGID EXCAVATION SUPPORT SYSTEMS USING HEAVILY REINFORCED SLURRY WALLS
3A	EXCAVATE IN LIFTS FROM ORIGINAL GROUND
3B	DEWATER AS NEEDED
3C	INSTALL TIEBACKS AND/OR TEMPORARY INTERNAL BRACING AS REQUIRED FOR THE SYSTEM STABILITY
4	REPEAT STAGE 3 TO BOTTOM OF STATION/ TUNNEL GRADE SLAB
5	CONSTRUCT BOTTOM GRADE SLAB AND TIE IN TO THE EXCAVATION SUPPORT AS A PERMANENT BRACING SYSTEM
6	CONSTRUCT THE INTERIOR OF THE STATION/ TUNNEL (INTERIOR WALLS, SLABS)
7	CONSTRUCT STATION/TUNNEL ROOF SLAB AND TIE IN TO THE EXCAVATION SUPPORT SYSTEM AS PERMANENT BRACING SYSTEM
8	WATERPROOF THE ROOF SLAB, BACKFILL AND RESTORE THE GROUND

* SLURRY WALLS ARE ONE TYPE OF COMMON RIGID EXCAVATION SUPPORT SYSTEM. OTHER SUITABLE RIGID EXCAVATION SUPPORT SYSTEMS SUCH AS TANGENT/SECANT PILES MIGHT BE CONSIDERED FOR THIS LOCATION. HEAVY REINFORCEMENT WILL BE REQUIRED.



DESIGNED BY E. VELASCO DRAWN BY F.J. DOMINGUEZ CHECKED BY A. NAVARRO IN CHARGE A. RELAÑO NOT FOR

DESCRIPTION

BY CHK APP



CONSTRUCTION

02/01/2019



CALIFORNIA HIGH-SPEED RAIL PROJECT PALMDALE TO BURBANK

BURBANK SUBSECTION SINGLE CELL 4 TRACKS CUT-AND-COVER TUNNEL TYPICAL SECTION DRAWING NO.
TN-C1106
SCALE

AS SHOWN

NOTES:

DESIGNED BY
E. VELASCO

CHECKED BY

N CHARGE A. RELAÑO

BY CHK APP

DESCRIPTION

FJ. DOMINGUEZ

02/01/2019

BURBANK SUBSECTION

DRAFT PEPD REVO1

NOT FOR

CONSTRUCTION

- TYPES, LOCATIONS AND DIMENSIONS OF EXCAVATION SUPPORT NOT DESIGNED. RIGID EXCAVATION SUPPORTS WITH TIEBACKS AND TEMPORARY INTERNAL BRACING ANTICIPATED.
- 2. PERMANENT LINING ASSUMED WATERTIGHT/ UNDRAINED IN PERMANENT CASE.
- 3. STRUCTURE COMPONENTS ARE NOT DESIGNED. DRAWINGS NOT BASED ON ACTUAL DESIGN AND ARE DEVELOPED FOR PRELIMINARY COST ESTIMATE.
- 4. TRACK, OPENINGS, PLATFORM, STATION LAYOUT, CABLE DUCTS AND DRAINAGE ARE SCHEMATIC AND DO NOT REPRESENT DESIGN.
- 5. EQUIPMENT AND STRUCTURE GAUGES NOT SHOWN.
 REFER TO DRAWINGS TN-C0006 AND TN-C0007 FOR
 FIXED EQUIPMENT ENVELOPE AND STRUCTURE GAUGE.
- 6. GROUND IMPROVEMENT ANTICIPATED IN THIS AREA. LIMITS OF GROUND IMPROVEMENT TO BE DETERMINED AFTER GEOTECHNICAL INVESTIGATIONS ARE COMPLETED.
- 7. TIEBACKS OR GROUND ANCHORS ARE ANTICIPATED FOR WALLS WITH AN EXPOSED HEIGHT GREATER THAN 20 FT. CANTILEVER SOLDIER PILE WALLS ARE ANTICIPATED FOR WALLS WITH AN EXPOSED HEIGHT LESS THAN 20 FT.
- 8. TYPICAL SECTION ON THIS SHEET IS APPLICABLE AT THE FOLLOWING LOCATIONS:

ALIGNMENT	SUB-SECTION	BEGIN STA	END STA
REFINED SR14	BURBANK	2231+18.00	2231+77.00

* SLURRY WALLS ARE ONE TYPE OF COMMON RIGID EXCAVATION SUPPORT SYSTEM, OTHER SUITABLE RIGID EXCAVATION SUPPORT SYSTEMS SUCH AS TANGENT/ SECANT PILES MIGHT BE CONSIDERED FOR THIS LOCATION, HEAVY REINFORCEMENT WILL BE REQUIRED.

CONSTRUCTION SEQUENCE:

CALIFORNIA HIGH-SPEED RAIL PROJECT

PALMDALE TO BURBANK

BURBANK SUBSECTION

BURBANK STATION PLATFORM

CUT-AND-COVER TUNNEL

TYPICAL SECTION

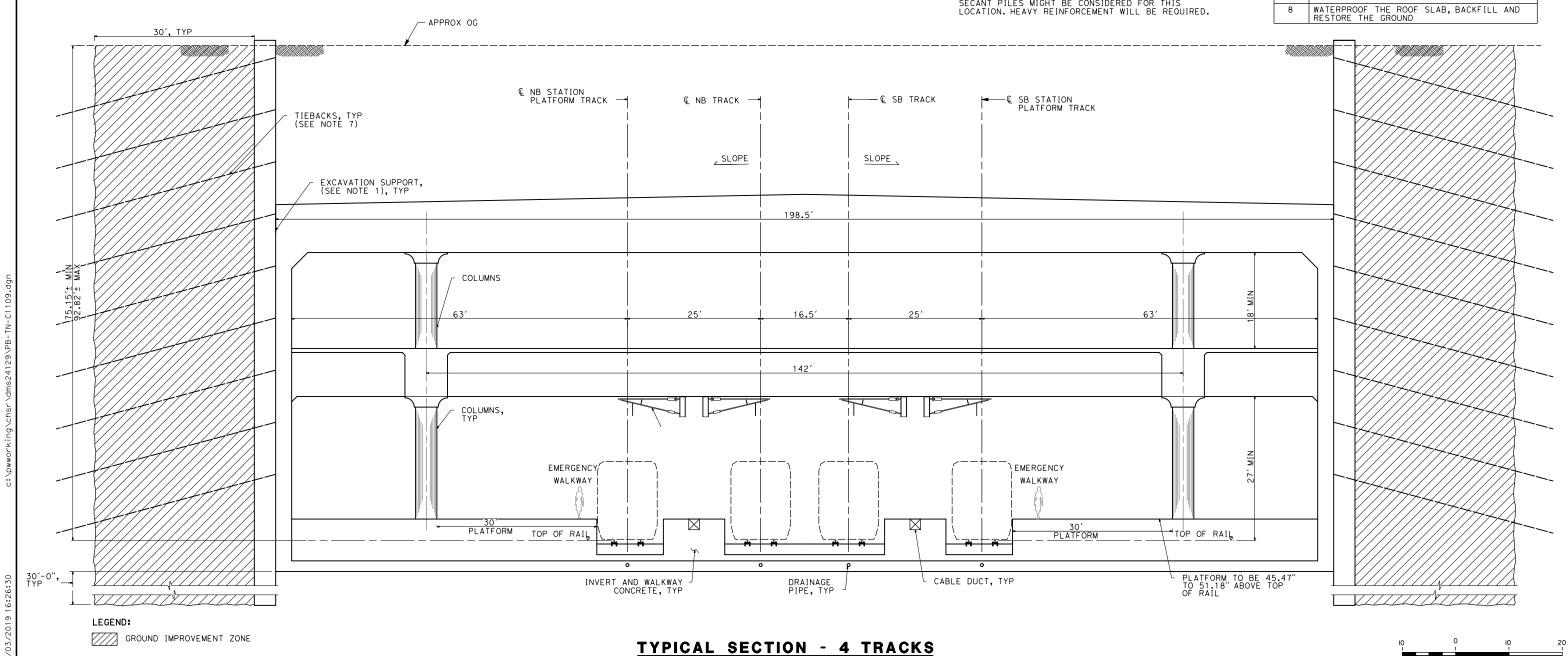
HSR14-42

TN-C1109

AS SHOWN

HEET NO.

STAGE	DESCRIPTION
0	INSTALL MOVEMENT MONITORING SYSTEMS
1	INSTALL GROUND IMPROVEMENT
2	INSTALL RIGID EXCAVATION SUPPORT SYSTEMS USING HEAVILY REINFORCED SLURRY WALLS
3A	EXCAVATE IN LIFTS FROM ORIGINAL GROUND
3B	DEWATER AS NEEDED
3C	INSTALL TIEBACKS AND/OR TEMPORARY INTERNAL BRACING AS REQUIRED FOR THE SYSTEM STABILITY
4	REPEAT STAGE 3 TO BOTTOM OF STATION/ TUNNEL GRADE SLAB
5	CONSTRUCT BOTTOM GRADE SLAB AND TIE IN TO THE EXCAVATION SUPPORT AS A PERMANENT BRACING SYSTEM
6	CONSTRUCT THE INTERIOR OF THE STATION/ TUNNEL (INTERIOR WALLS, SLABS)
7	CONSTRUCT STATION/TUNNEL ROOF SLAB AND TIE IN TO THE EXCAVATION SUPPORT SYSTEM AS PERMANENT BRACING SYSTEM
8	WATERPROOF THE ROOF SLAB, BACKFILL AND RESTORE THE GROUND



SENER

CALIFORNIA

HIGH-SPEED RAIL AUTHORITY

California High-Speed Rail Authority

Burbank Subsection



BURBANK SUBSECTION

DRAWING NO.	DRAWING DESCRIPTION	SHEET NO.
UT-B0001-BUR	BURBANK SUBSECTION - RELOCATION UTILITY PLANS - INDEX OF DRAWINGS	
UT-B0002-BUR	BURBANK SUBSECTION - RELOCATION UTILITY PLANS - ABBREVIATIONS AND LEGEND	
UT-B0003-BUR	BURBANK SUBSECTION - RELOCATION UTILITY PLANS - KEY MAP	
UT-C4086-BUR	BURBANK SUBSECTION - RELOCATION UTILITY PLANS - STA 2215+00 TO STA 2230+00	
UT-C4087-BUR	BURBANK SUBSECTION - RELOCATION UTILITY PLANS - STA 2230+00 TO STA 2254+47.54	

							DESIGNED BY A.TRONCOSO	BURBANK
							DRAWN BY	SUBSECTION
							CHECKED BY	DRAFT PEPD REVO
ın							IN CHARGE A.RELANO	NOT FOR
ASUS	REV	DATE	BY	СНК	APP	DESCRIPTION	DATE 02/28/2019	CONSTRUCTION

BURBANK SUBSECTION AFT PEPD REVOI NOT FOR





CALIFORNIA HIGH-SPEED RAIL PROJECT PALMDALE TO BURBANK

BURBANK SUBSECTION

RELOCATION UTILITY PLANS INDEX OF DRAWINGS

CONTRACT NO. HSR14-42
DRAWING NO. UT-B0001-BU
SCALE NO SCALE

SHEET NO.

LEGEND AND SYMBOLS **ABBREVIATIONS**

<u>EXISTING</u>	PROPOSED	DESCRIPTION
	—-Е—	ELECTRICAL UNDERGROUND
	— - Е — - (ОН)—	ELECTRICAL OVERHEAD
fo fo		FIBER OPTIC UNDERGROUND
fo(on)		FIBER OPTIC OVERHEAD
gs		GAS
		NATURAL GAS
		OIL
sd	——————————————————————————————————————	STORM DRAIN
ss	ss	SEWER
	st	STEAM
	тстс -	TELECOMMUNICATION UNDERGROUND
tc	— тс ——(он)——-	TELECOMMUNICATION OVERHEAD
t		TELEPHONE UNDERGROUND
	—T——(OH)——-	TELEPHONE OVERHEAD
tv		TELEVISION UNDERGROUND
tv(oh)		TELEVISION OVERHEAD
·	·	WATER
		RETAINING WALL
		RIGHT-OF-WAY
		HSR RIGHT-OF-WAY
		HSR TUNNEL
	230+00	HSR TRACK CENTERLINE
		PERMANENT ENVIRONMENTAL FOOTPRINT
		TEMPORARY ENVIRONMENTAL FOOTPRINT
		FUTURE TRACK CENTERLINE
		NATIONAL FOREST BOUNDARY
_	•	PTC TOWER
wĔLL		WELL LOCATION
		POWER TRANSMISSION TOWER
D sd-	l	HEADWALL
		TRACK SWITCH
		STRUCTURES (BRIDGE, VIADUCT)
	(#)	KEY NOTE
P		PUMP STATION
GENERAL	NATES	

GENERAL NOTES

1. EXISTING UTILITIES IDENTIFIED WITH THE DISPOSITIONS 'RELOCATE', 'REMOVE' OR 'PROTECT IN PLACE' PERTAIN TO THAT PORTION OF THE UTILITY THAT IS LOCATED WITHIN THE PROPOSED, PERMANENT HSR RIGHT-OF-WAY

ABN ACP ALT APPROX AVE	ABANDON ASBESTOS CEMENT PIPE ALTERNATIVE APPROXIMATE AVENUE
BEG	BEGIN
BLDG	BUILDING
BLVD	BOULEVARD
BO	BLOW-OFF
CB	CATCH BASIN
CD	CURB DRAIN
CHSR	CALIFORNIA HIGH-SPEED RAIL
CIP	CAST IRON PIPE
€ CMP CTV	CENTERLINE CORRUGATED METAL PIPE CABLE TELEVISION
D DI DIA DIP DWG	DEPTH DRAINAGE INLET, DROP INLET DIAMETER DUCTILE IRON PIPE DRAWING
ED EDC EDO EDV ELEC ELEV ENV EXIST EXP	
FL	FLOW LINE
FO	FIBER OPTIC
FP	FOOTPRINT
G	GAS
GALV	GALVANIZED
HDC	HIGH DESERT CORRIDOR
HSR	HIGH-SPEED RAIL
INV	INVERT
IRR	IRRIGATION
L LT LMF MAX MIN MT	LENGTH LEFT LIGHT MAINTENANCE FACILITY MAXIMUM MINIMUM MAIN TRACK
N	NORTH
NB	NORTHBOUND
DDAD	DDODOCED

PROP PPEF PROPOSED PERMANENT ENVIRONMENTAL FOOTPRINT PS POWER STATION RADIUS RCP REINFORCED CONCRETE PIPE RD ROAD REINF REINFORCED, REINFORCEMENT, REINFORCING REL RELOCATE REPL REPLACEMENT R/W, ROW RIGHT OF WAY RT RIGHT RTE ROUTE S SOUTH SB SOUTHBOUND **SCRRA** SOUTHERN CALIFORNIA REGIONAL RAIL AUTHORITY SD STORM DRAIN SR STATE ROUTE ST STREET STA STATION STBB SINGLE THRIE BEAM BARRIER STD STANDARD STR STRUCTURE

SRS STAND ALONE RADIO SITE SW SIDEWALK, SOUND WALL

SWR SEWER

TEL TELEPHONE TEMP TEMPORARY TOT TOTAL TΡ TELEPHONE POLE

TPSS TRACTION POWER SUPPLY STATION

TERMINAL STORAGE AND MAINTENANCE FACILITY **TSMF**

TYP TYPICAL

UG UNDERGROUND UNK UNKNOWN UPRR UNION PACIFIC RAILROAD

WATER, WEST, WIDTH WB WESTBOUND

WATER MAIN WM WSP WELDED STEEL PIPE

WΤ WEIGHT W٧

WATER VALVE

UTILITY OWNERS

AIR TOUCH AIR TOUCH CELLULAR AVEK W ANTELOPE VALLEY - E. KERN WATER

AT&T DIST AT&T DISTRIBUTION AT&T TRANS AT&T TRANSMISSION

BURBANK AIRPORT BURBANK GLENDALE PASADENA AIRPORT AUTHORITY

BWP BURBANK WATER & POWER

CENTURY L CENTURYLINK CITY OF BURBANK CITY OF BURBANK CITY OF GLENDALE CITY OF GLENDALE CITY OF LA CITY OF LOS ANGELES -RECORDS SECTION CITY OF SANTA CLARITA CITY OF SC CITY OF PALMDALE CITY OF PALMDALE CITY OF S FERNANDO CITY OF SAN FERNANDO

CLEAR CHANNEL CLEAR CHANNEL OUTDOOR CROWN CASTLE CROWN CASTLE

EL DORADO MWC EL DORADO MUTUAL WATER

COMPANY

EXXON EXXON MOBIL PIPELINE CO

LACDPW LA COUNTY DEPARTMENT OF PUBLIC WORKS

LACDPW-WW LA COUNTY WATER WORKS

LACSD LOS ANGELES COUNTY SANITATION DISTRICT LADWP LOS ANGELES DEPARTMENT OF WATER & POWER

LEVEL 3 LEVEL 3 COMMUNICATIONS LIBERMAN LIBERMAN BROADCASTING NEWHALL CW NEWHALL COUNTY WATER

MARCUS

MARCUS CABLE

MCI (VERIZON BUSINESS) METROPOLITAN WATER DISTRICT MWD

PALMDALE WD PALMDALE WATER DISTRICT PLAINS ALL AMERICAN PIPELINE PAAP

PPS PACIFIC PIPELINE

PT & T PACIFIC TEL & TELEGRAPH QWEST QWEST COMMUNICATION SCWC SANTA CLARITA WATER CO SCE TEL SC EDISON - TELECOM

SCE DIST SC EDISON - DIST/TELECOM SCE SOUTHERN CALIFORNIA EDISON SCG SC GAS - LANCASTER

SCG TRANS SC GAS - TRANSMISSION SC GAS VICT - TRANSMISSION

SUNESYS SUNESYS, LLC **SPRINT** SPRINT

SPV WC SPV WATER COMPANY

STATE DEPARTMENT WATER CA DWR

RESOURCES **TESORO**

T-MOBILE T-MOBILE USA TWC TIME WARNER CABLE VERIZON VERIZON - IRWINDALE

WSP MWC WEST SIDE PARK MUTUAL WATER

COMPANY

TESORO

WILSHIRE CONN WILSHIRE CONNECTION LLC XO COMM XO COMMUNICATIONS

ZAYO FNA ABOVENET ZAYO

A.TRONCOSO L.GUERRERO N.TIZANI A.RELANO DATE BY CHK APP DESCRIPTION 02/28/2019

BURBANK SUBSECTION DRAFT PEPD REVOI

NOT FOR

CONSTRUCTION

PROP

P.S.

PROPOSED

POWER STATION





CALIFORNIA HIGH-SPEED RAIL PROJECT PALMDALE TO BURBANK

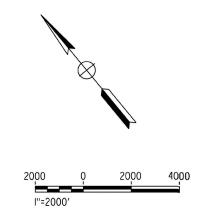
ALIGNMENT "BUR"

RELOCATION UTILITY PLANS ABBREVIATIONS AND LEGEND

HSR14-42 UT-B0002-BUR

NO SCALE SHEET NO.





\$0	REV	DATE	BY	СНК	APP	DESCRIPTION	DATE 02/28/2019	CONSTRUCTION
SER\$							A.RELANO	NOT FOR
							N.TIZANI IN CHARGE	DRAFT PEPD REVO
							CHECKED BY	
							L.GUERRERO	SUBSECTION
							DESIGNED BY A.TRONCOSO	BURBANK

BURBANK SUBSECTION PRAFT PEPD REVOI

SENER



CALIFORNIA HIGH-SPEED RAIL PROJECT PALMDALE TO BURBANK

BURBANK SUBSECTION

RELOCATION UTILITY PLANS KEY MAP

CONTRACT NO.
HSR14-42
DRAWING NO.
UT-B0003-BUR
SCALE
AS SHOWN
SHEET NO.





l''=100'

							DESIGNED BY A.TRONCOSO	BURBANK
							DRAWN BY	SUBSECTION
	Ш						CHECKED BY	DRAFT PEPD REVO
\$							IN CHARGE	
BUSER\$	REV	DATE	BY	СНК	APP	DESCRIPTION	A.RELANO DATE 02/28/2019	NOT FOR CONSTRUCTION

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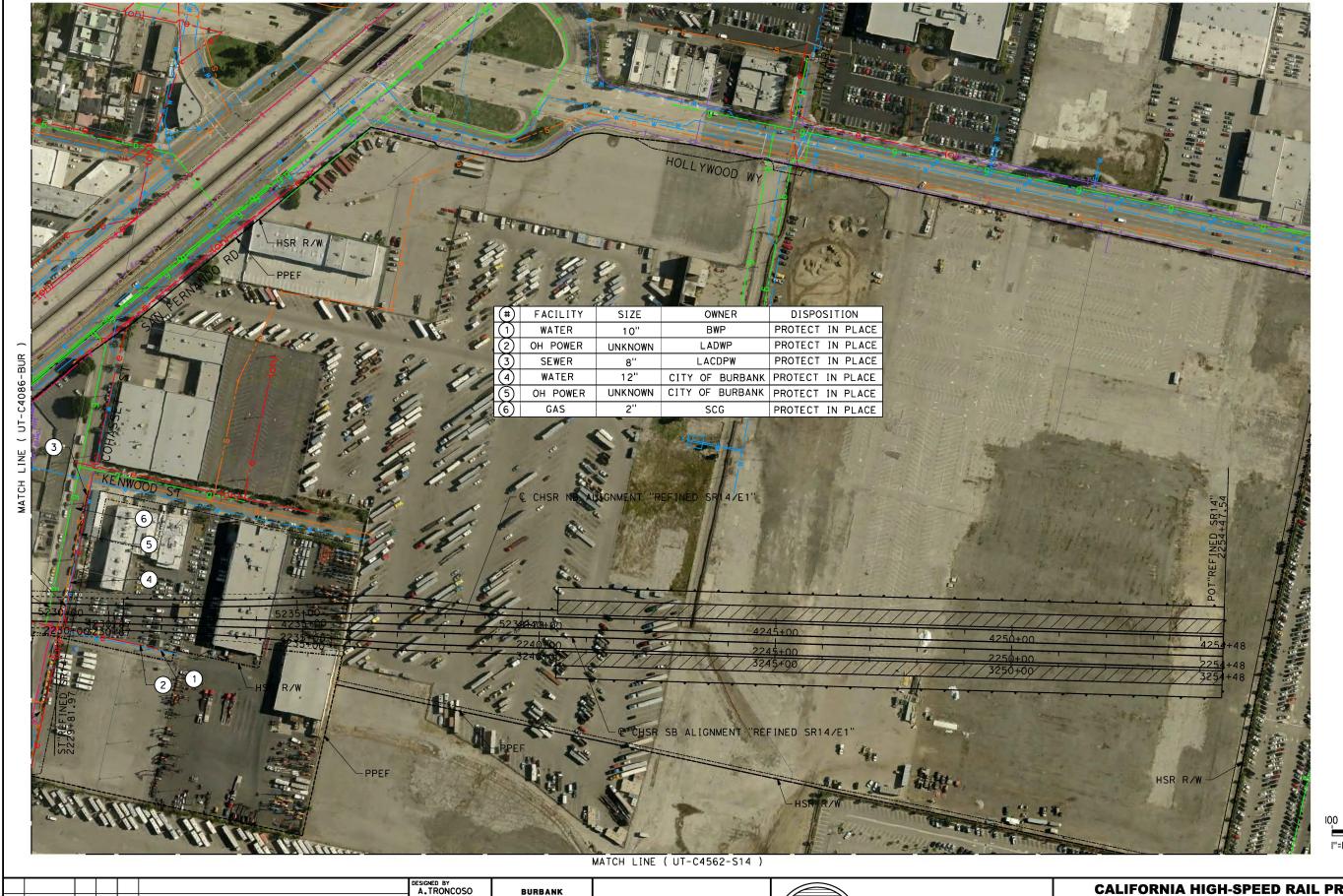
CALIFORNIA HIGH-SPEED RAIL PROJECT PALMDALE TO BURBANK

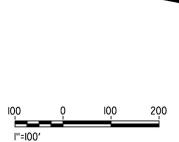
BURBANK SUBSTATION

RELOCATION UTILITY PLANS STA 2215+00 TO STA 2230+00

CONTRACT NO.							
HSR14-42							
DRAWING NO.							
UT-C4086-BUR							
SCALE							
AS SHOWN							

SHEET NO.





							DESIGNED BY A.TRONCOSO	BURBANK
							DRAWN BY L.GUERRERO	SUBSECTION
							CHECKED BY	DRAFT PEPD REVO
Ð							IN CHARGE	
USE	REV	DATE	BY	СНК	APP	DESCRIPTION	DATE 02/28/2019	NOT FOR CONSTRUCTION

SENER SENER

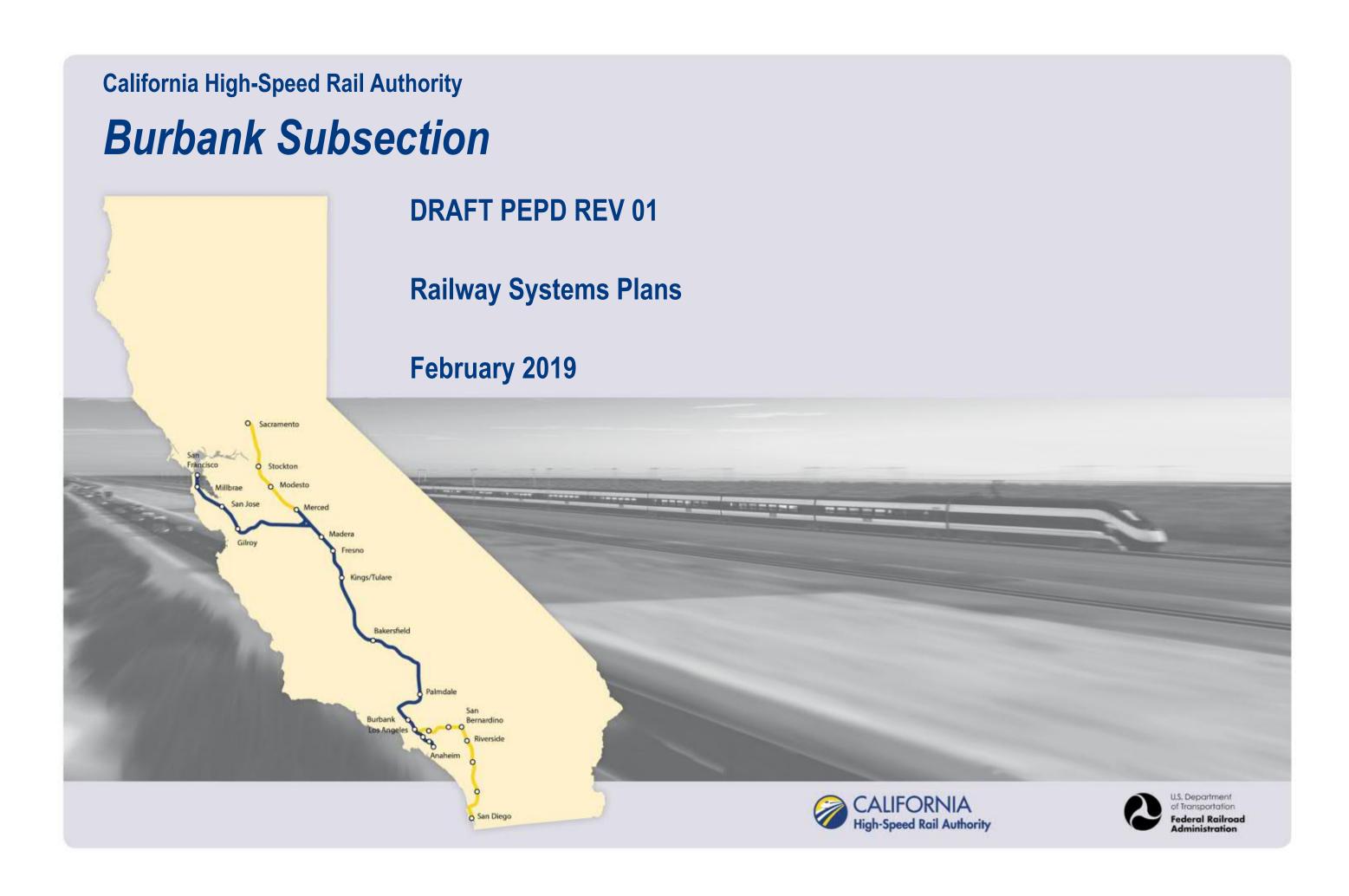


CALIFORNIA HIGH-SPEED RAIL PROJECT PALMDALE TO BURBANK

BURBANK SUBSTATION

RELOCATION UTILITY PLANS STA 2230+00 TO STA 2254+47.54

CONTRACT NO. HSR14-42
UT-C4087-BUR
SCALE AS SHOWN
SUFET NO



GENERAL SHEETS

DRAWING NO.	DRAWING DESCRIPTION	SHEET	NO.
TP-B0001	INDEX OF DRAWINGS		
TP-B0002	ABBREVIATIONS		
TP-B0003	ABBREVIATIONS AND LEGEND		

CHSR ALIGNMENT "REFINED SR14" RAILWAY SYSTEMS AND FACILITIES

DRAWING NO.	DRAWING DESCRIPTION	SHEET NO.
TP-D0001-S14	TRACTION POWER FACILITIES - LOCATION LAYOUT	

BURBANK AIRPORT STATION TYPICAL SECTIONS AND LAYOUTS

DRAWING NO.	DRAWING DESCRIPTION	SHEET NO.
TP-04008-S14	TRACTION POWER FACILITIES - PARALLELING STATION 7	

TRAIN CONTROL SYSTEM

DRAWING NO.	DRAWING DESCRIPTION	SHEET NO.
TC-E6005	INTERLOCKING SITES - BURBANK STATION	
TC-B6001-S14	RAILWAY SYSTEMS - KEY MAP	
TC-E5001-S14	INTERLOCKING SITES - STA 2233+00 TO STA 2245+00	

							DESIGNED BY R. RODRIGUEZ	BURBANK
							DRAWN BY	SUBSECTION
							CHECKED BY	DRAFT PEPD REVO
2							A. NAVARRO	DRAFI PEPD REVU
- 707							A. RELAÑO	NOT FOR
ĺν	REV	DATE	ВҮ	СНК	APP	DESCRIPTION	02/01/2019	CONSTRUCTION





CALIFORNIA HIGH-SPEED RAIL PROJECT PALMDALE TO BURBANK

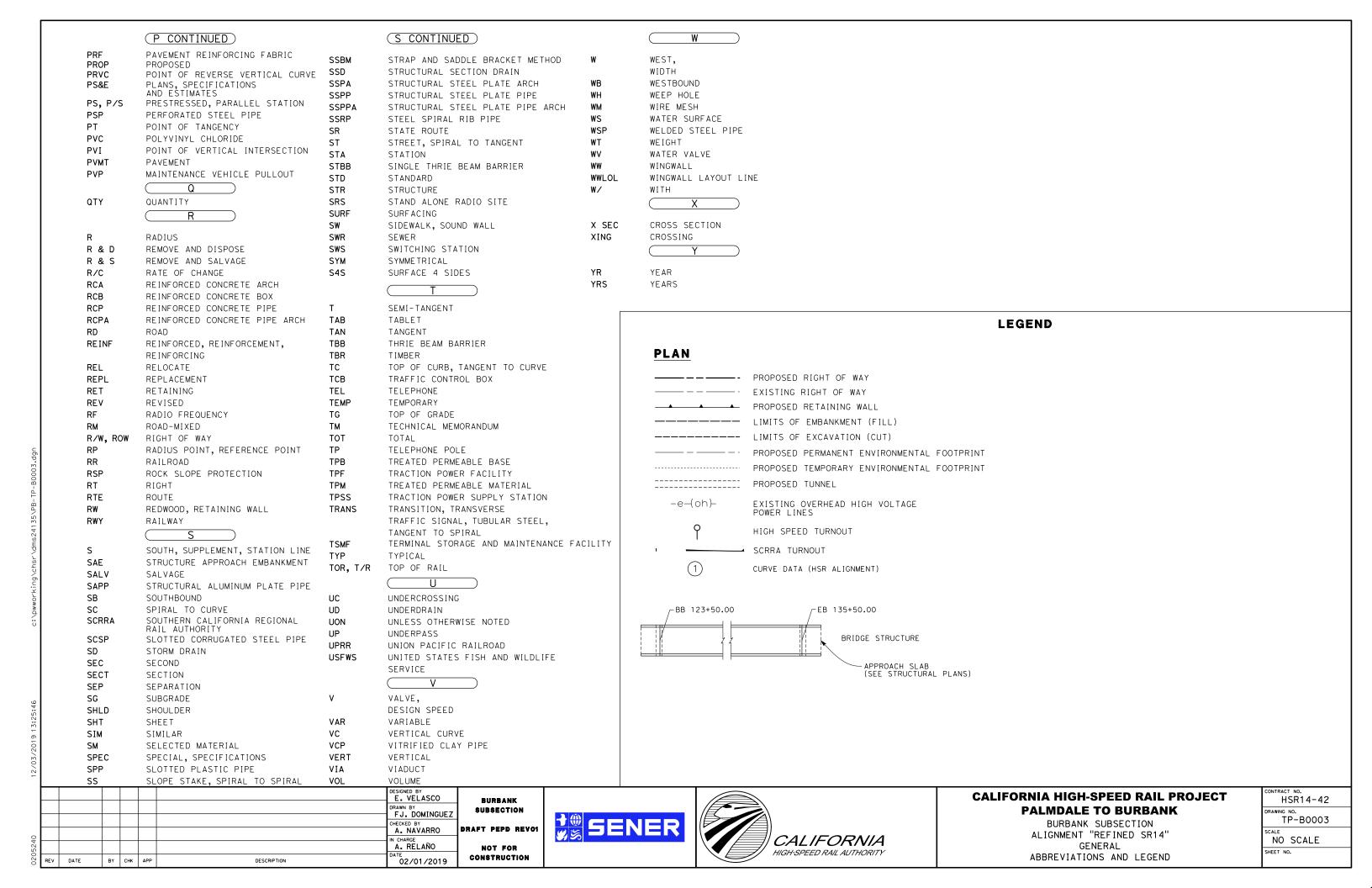
BURBANK SUBSECTION ALIGNMENT "REFINED SR14" GENERAL INDEX OF DRAWINGS

HSR14-42 TP-B0001

SHEET NO.

NO SCALE

		A		(C CONTINUED)		(E CONTINUED)		H		(M CONTINUED)
	AB	AGGREGATE BASE	CHSRA	CALIFORNIA HIGH SPEED RAIL	EASE	EASEMENT	Н	HEIGHT	MOD	MODIFIED, MODIFY
	ABBC	ASBESTOS BONDED BITUMINOUS COATED		AUTHORITY	EB	END OF BRIDGE, EASTBOUND	HD	HORIZONTAL DRAIN	MON	MONUMENT
	АВМ	AIR-BLOWN MORTAR	CHST	CALIFORNIA HIGH SPEED TRAIN	EC	END HORIZONTAL CURVE	HDWL	HEADWALL	MP	METAL PLATE
	ABN	ABANDON	CHSR	CALIFORNIA HIGH SPEED RAIL	ECR	END CURB RETURN	HEX HD	HEXAGONAL HEAD	MPGR	METAL PLATE GUARD RAILING
	ABUT	ABUTMENT	CG	CENTER OF GRAVITY	ED	EDGE DRAIN	HMA	HOT MIXED ASPHALT	MPH	MILES PER HOUR
	AC	ASPHALT CONCRETE	CHNL	CHANNEL	EDC	EDGE DRAIN CLEANOUT	HORIZ	HORIZONTAL	MR	MOVEMENT RATING
	ACB	ASPHALT CONCRETE BASE	CI	CAST IRON	EDO	EDGE DRAIN OUTLET	HP	HINGE POINT, HORSEPOWER	MSE	MECHANICALLY STABILIZED EARTH
	ACP	ASBESTOS CEMENT PIPE	CIDH	CAST-IN-DRILLED-HOLE	EDV	EDGE DRAIN VENT ELECTROLIER	HPS HR	HIGH PERFORMANCE STEEL HOUR	MSS MT	MOVING SCAFFOLDING SYSTEM MAIN TRACK
	ADL ADJ	ADDED DEAD LOAD ADJUST	CIP,C-I-P	P CAST-IN-PLACE, CAST IRON PIPE CAST IN PLACE CONCRETE PIPE	ELEC ELECT	ELECTROLIER	nk HS	HIGH STRENGTH	MTL	MATERIAL
	AFES	ALTERNATIVE FLARED END SECTION	CIFCF	CAST IN FLACE CONCRETE FIFE CAST-IN-STEEL-SHELL	ELEV	ELEVATION	HSR	HIGH SPEED RAIL		N
	AHD	AHEAD	CJP	COMPLETE JOINT PENETRATION	ELLN	EXTRALEGAL LEAD NETWORK	HST	HIGH SPEED TRAIN	N	NORTH, NORTHING
	ALT	ALTERNATE	CL	CENTERLINE, CLASS	EMB	EMBANKMENT	HW	HEADWALL, HIGH WATER	N/A	NOT APPLICABLE
	AM	TIME FROM MIDNIGHT TO NOON	Ć_	CENTERLINE	ENGR	ENGINEER	Н₩М	HIGH WATER MARK	NB	NORTHBOUND
	AP	ALTERNATIVE PIPE	CL2	CLASS 2	EOD	EDGE OF DECK	HWY	HIGHWAY	NO.	NUMBER (MUST HAVE PERIOD)
	APC	ALTERNATIVE PIPE CULVERT	CL-6	CHAIN LINK FENCE (6 FT)	EP	EDGE OF PAVEMENT			NOS.	NUMBERS (MUST HAVE PERIOD)
	APPROX	APPROXIMATE	CLR	CLEAR, CLEARANCE	EQ	EQUATION, EQUAL			NPS	NOMINAL PIPE SIZE
	APU	ALTERNATIVE PIPE UNDERDRAIN	СМ	CORRUGATED METAL	ES	EDGE OF SHOULDER	IB	IMPORTED BORROW	NS	NEAR SIDE
	ARS	ACCELERATION RESPONSE SPECTRUM	CMP	CORRUGATED METAL PIPE	ETW	EDGE OF TRAVELED WAY	ID	INSIDE DIAMETER	NTS	NOT TO SCALE
	AR	ACCESS RESTRICTION	CO	COUNTY	EVC	END VERTICAL CURVE	IF	INSIDE FACE		0
	AS	AGGREGATE SUBBASE	COL	COLUMN	EW	ENDWALL	IN	INCH, INCHES	001.0	
	ASRP	ALUMINUM SPIRAL RIB PIPE	CONC COND	CONCRETE CONDUIT	EXC	EXCAVATION	INT INV	INTERIOR INVERT	OBLR	OBLITERATE OVERCROSSING
	ASSY ATPB	ASSEMBLY ASPHALT TREATED PERMEABLE BASE	COND	CONNECTOR	EXP	X.EXISTING EXPANSION	IRR	IRRIGATION	oc ocs	OVERHEAD CONTACT SYSTEM
	ATPM	ASPHALT TREATED PERMEABLE MATERIAL		CONSTRUCT, CONSTRUCTION		EXPANSION JOINT	INN	INTIGATION	OD	OUTSIDE DIAMETER
	AVE	AVENUE AVENUE	CONT	CONTINUOUS	EXT	EXTERIOR		J	OF	OUTSIDE FACE
	AVG	AVERAGE	COORD	COORDINATE	EXWY	EXPRESSWAY	JCT	JUNCTION	OG	ORIGINAL GROUND
	<u> </u>	AT	CP	CANDLEPOWER			JP	JOINT POLE	OGAC	OPEN GRADED ASPHALT CONCRETE
			CR	CREEK		(F	JPCP	JOINTED PLAIN CONCRETE PAVEMENT	ОН	OVERHEAD
		(B)	CRCP	CONTINUOUS REINFORCED CONCRETE PAVT	F & C	FRAME AND COVER	JS	JUNCTION STRUCTURE	0-0	OUT TO OUT
	BAGR	BRIDGE APPROACH GUARD RAILING	CRSP	CONCRETED ROCK SLOPE PROTECTION	F & G	FRAME AND GRATE	JT	JOINT	OPP	OPPOSITE
	BB	BEGINNING OF BRIDGE	CS	CURVE TO SPIRAL	FB	FLOOR BEAM		K		P
	ВС	BEGIN HORIZONTAL CURVE	CSP	CORRUGATED STEEL PIPE	F-B	FRESNO TO BAKERSFIELD			_	
r g	BCC	BALANCED CANTILEVER CONSTRUCTION	CSPA	CORRUGATED STEEL PIPE ARCH	FDN	FOUNDATION TRAFFIC	К	DISTANCE TO ACHIEVE 1% GRADE CHANGE		PAGE
0.2.0	BCR	BEGIN CURB RETURN	CTB CTPB	CEMENT TREATED BASE CEMENT TREATED PERMEABLE BASE	FEBT	FACING EASTBOUND TRAFFIC FLARED END SECTION			PAP	PERFORATED ALUMINUM PIPE
000	BEG BIT CTD	BEGIN D BITUMINOUS COATED	CTPM	CEMENT TREATED PERMEABLE BASE CEMENT TREATED PERMEABLE MATERIAL	FES FF	FILTER FABRIC	L	LENGTH	PB PC	PULL BOX POINT OF CURVATURE, PRECAST
<u>-</u>	BK BK	BACK	CTRS	CENTERS PERMEABLE MATERIAL	FG	FINISHED GRADE	LAT	LATITUDE	PCC	POINT OF COMPOUND CURVE,
- B	BKF	BACKFILL	CULV	CHI VEDI		FIRE HYDRANT	LC	LENGTH OF CURVE	1 00	PORTLAND CEMENT CONCRETE
35.7		BUILDING	CVFPB	CENTRAL VALLEY FLOOD PROTECTION BOAR	D FIG	FIGURE	LMF	LIGHT MAINTENANCE FACILITY	PCP	PERFORATED CONCRETE PIPE,
4	BLM	BRIDGE-LOG MILE			FL	FLOW LINE	LN	LANE		PRESTRESSED CONCRETE PIPE
ms2	BLVD	BOULEVARD			FNBT	FACING NORTHBOUND TRAFFIC	LOC	LOCATION	PCVC	POINT OF COMPOUND VERTICAL CURVE
2	ВМ	BENCH MARK	D	DEPTH	FOC	FACE OF CONCRETE	LOL	LAYOUT LINE	PED	PEDESTRIAN
S C P S	BND	BOUND	DD	DOWNDRAIN, DIRECTIVE DRILLING	FPLM	FULL SPAN PRECAST	LONG	LONGITUDE	PED OC	PEDESTRIAN OVERCROSSING
∫gu	вот	BOTTOM	DBL	DOUBLE		LAUNCHING METHOD	LONGIT	LONGITUDINAL	PED UC	PEDESTRIAN UNDERCROSSING
<u> </u>	BR	BRIDGE	DEG	DEGREE	FR RD	FRONTAGE ROAD	LS	LENGTH OF SPIRAL		
O M MO	BRG	BEARING	DEL	DELINEATOR	FS	FAR SIDE, FINISHED SURFACE	LT	LEFT	PG	PROFILE GRADE
2	BTU	BRITISH THERMAL UNIT	DET	DETAIL, DETOUR	FSBT	FACING SOUTHBOUND TRAFFIC		M	PI	POINT OF INTERSECTION
Ĭ	BVC	BEGIN VERTICAL CURVE BARBED WIRE	DF DI	DOUGLAS FIR DRAINAGE INLET, DROP INLET	FT FTG	FOOT, FEET FOOTING	MAINT	MAINTENANCE	PJP ₽,PL	PARTIAL JOINT PENETRATION PLATE
	BW	DANBEU WIKE	DIA	DIAMETER	FUT	FUTURE	MAX	MAXIMUM MAXIMUM	۳,۲L P/L	PROPERTY LINE
			DIAPH	DIAPHRAGM	FWBT	FACING WESTBOUND TRAFFIC	MAX MB	METAL BEAM	P/L PM	POST MILE, TIME FROM NOON TO MIDNIGHT
		С	DIST	DISTANCE, DISTRICT	FWY	FREEWAY	MBB	METAL BEAM BARRIER	PN	PAVING NOTCH
	CAA	CABLE ANCHOR ASSEMBLY	DMBB	DOUBLE METAL BEAM BARRIER			MBGR	METAL BEAM GUARD RAILING	РОВ	POINT OF BEGINNING
	CAP	CORRUGATED ALUMINUM PIPE	DR	DRIVE		(G	MED	MEDIAN	POC	POINT OF HORIZONTAL CURVE
00:	CAPA	CORRUGATED ALUMINUM PIPE ARCH	DTBB	DOUBLE THRIE BEAM BARRIER	G	ACCELERATION DUE TO GRAVITY	M-F	MERCED TO FRESNO	POE	POINT OF ENDING
3:24	CAS	CONSTRUCTION AREA SIGN	DWY	DRIVEWAY	GA	GAGE	MH	MANHOLE	POT	POINT OF TANGENT
10	СВ	CONCRETE BARRIER			GALV	GALVANIZED	MIN	MINIMUM	POVC	POINT OF VERTICAL CURVE
/03/2019 13:24:00	CBW	CONCRETE BLOCK WALL		(E	GP GP	GRADING PLANE	MISC	MISCELLANEOUS	PP	PIPE PILE, PLASTIC PIPE, POWER POLE
03/	C-C	CENTER TO CENTER	Ε	EAST, EASTING	GR GSP	GUARD RAILING GALVANIZED STEEL PIPE		S MISCELLANEOUS IRON AND STEEL	PPL	PREFORMED PERMEABLE LINER
1270			EA	ACTUAL SUPERELEVATION	GTR	GUTTER	MKR	MARKER	PPP	PERFORATED PLASTIC PIPE
<u> </u>			EU	UNBALANCED SUPERELEVATION	0111		M/L	MAIN LINE (RAILWAY)	PRC	POINT OF REVERSE CURVE
				DESIGNED BY E. VELASCO BURBANK				CALIFORNIA H	IGH-SPEE	D RAIL PROJECT CONTRACT NO. HSR14-42
				DRAWN BY SUBSECTION				PALMO	ALE TO B	URBANK DRAWING NO.
				CHECKED BY A. NAVARRO DRAFT PEPD REVOI	SEI			BUF	RBANK SUBSE	
04							LIFOR	N/ ∕∕ ALIGNM	MENT "REFIN	I NU SUALE
052				A. RELAÑO NOT FOR			SPEED RAIL AUT.	THORITY	GENERAL	SHEET NO
0 REV	DATE BY	CHK APP DESCRIPTION		02/01/2019 CONSTRUCTION					ABBREVIATIO	UNU



CALIFORNIA HIGH-SPEED RAIL PROJECT PALMDALE TO BURBANK BURBANK SUBSECTION

ALIGNMENT "REFINED SR14" TRACTION POWER FACILITIES LOCATION LAYOUT

LEGEND

5.0

HSR14-42
DRAWING NO. TP-D0001-S14
SCALE
AS SHOWN
SHEET NO.

ONTRACT NO.

16000

DESIGNED BY
E. VELASCO FJ. DOMINGUEZ CHECKED BY

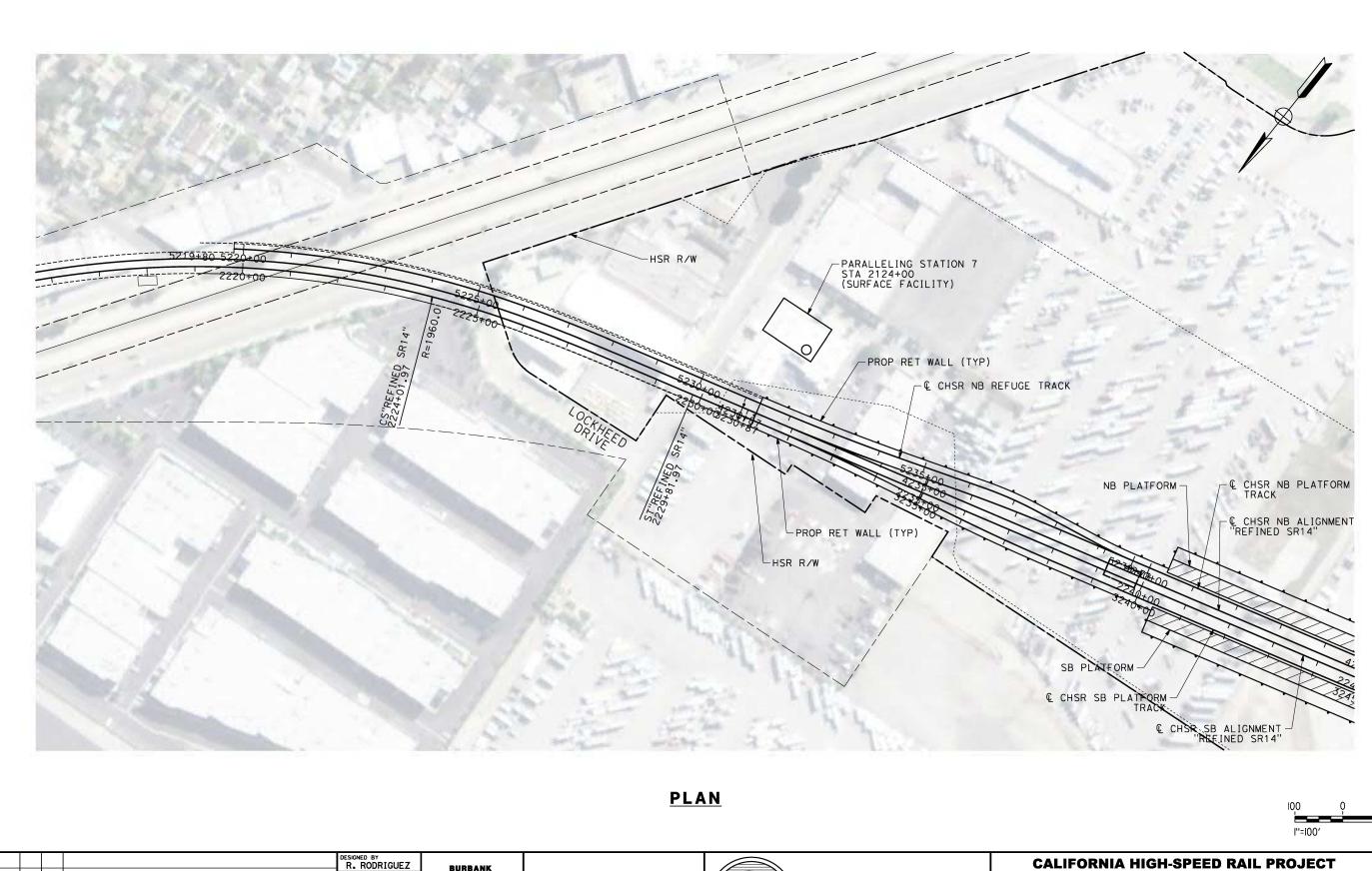
A. NAVARRO N CHARGE A. RELAÑO CONSTRUCTION DATE BY CHK APP DESCRIPTION 02/01/2019

SUBSECTION DRAFT PEPD REV01 NOT FOR

BURBANK







40 22/03

| DRAWN BY | FJ. DOMINGUEZ | CHECKED BY | A. NAVARRO | IN CHARGE | A . RELAÑO | A . RELAÑO | DATE | BY CHK | APP | DESCRIPTION | DATE | DOZ/01/2019

BURBANK
SUBSECTION

DRAFT PEPD REV01

NOT FOR
CONSTRUCTION

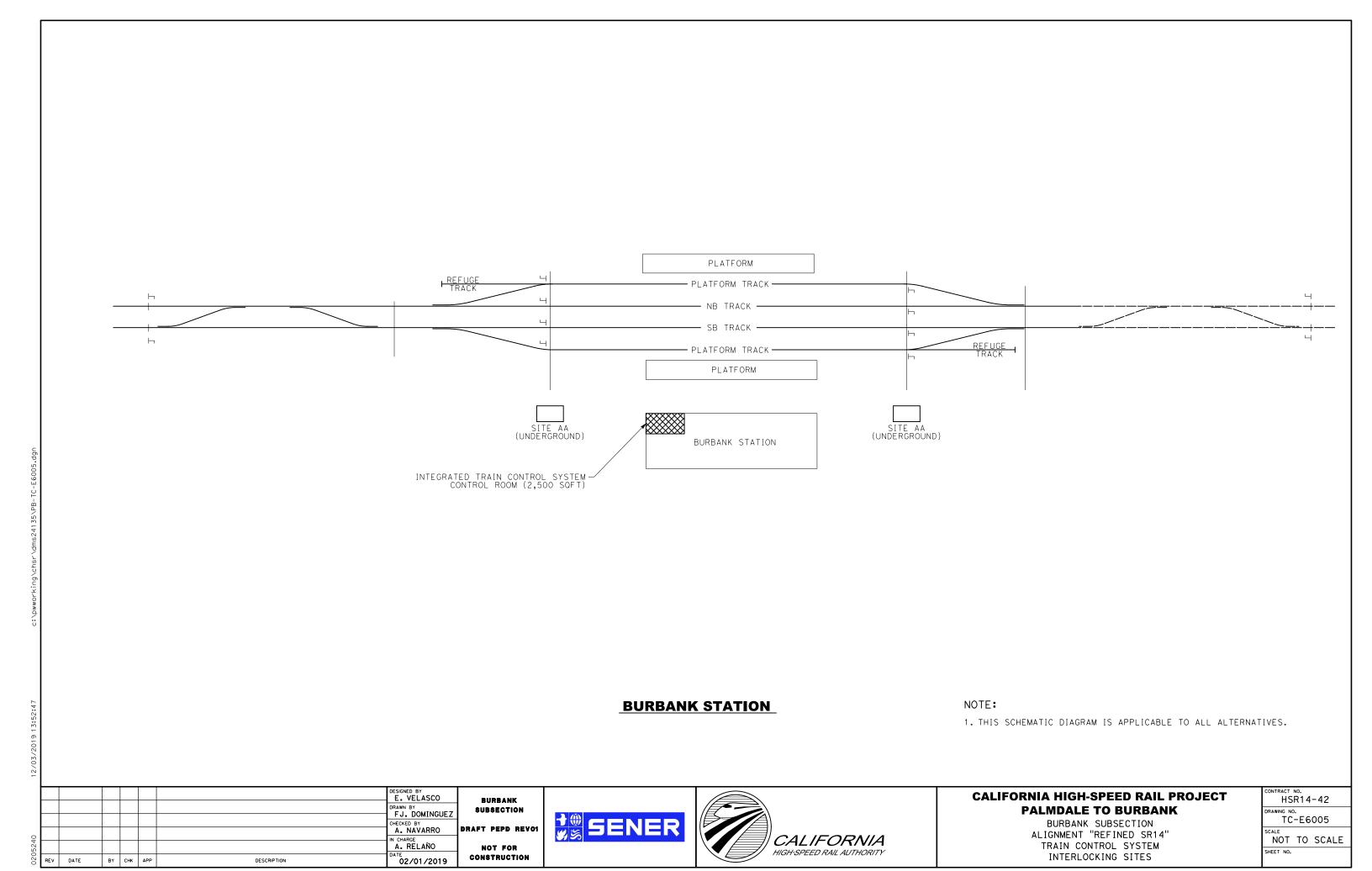




CALIFORNIA HIGH-SPEED RAIL PROJECT PALMDALE TO BURBANK

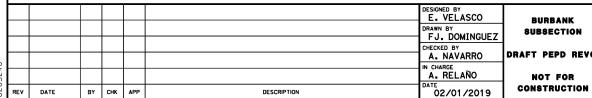
BURBANK SUBSECTION
ALIGNMENT "REFINED SR14"
TRACTION POWER FACILITIES
PARALLELING STATION 7

HSR14-42
DRAWING NO.
TP-04008-S14
SCALE CLIOWAL
AS SHOWN
SHEET NO.









BURBANK

SUBSECTION

NOT FOR

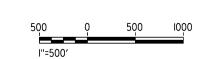
REFINED SR14 ALIGNMENT



TC-F5001-S14

BURBANK STATION



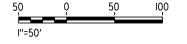


CALIFORNIA HIGH-SPEED RAIL PROJECT PALMDALE TO BURBANK

BURBANK SUBSECTION ALIGNMENT "REFINED SR 14"
RAILWAY SYSTEMS
KEY MAP

HSR14-42
DRAWING NO. TC-B6001-S14
AS SHOWN
SHEET NO





L							
L						DESIGNED BY A. VELASCO	
						DRAWN BY FJ. DOMINGUEZ	1
						CHECKED BY	l
Г						A. NAVARRO IN CHARGE	DRA
r						A. RELAÑO	
Ŀ	REV DATE	ВҮ	Y CHK	APP	DESCRIPTION	02/01/2019	C

BURBANK
SUBSECTION
NAFT PEPD REVOI
NOT FOR
CONSTRUCTION





CALIFORNIA HIGH-SPEED RAIL PROJECT PALMDALE TO BURBANK

BURBANK SUBSECTION TRAIN CONTROL SYSTEM INTERLOCKING SITES STA 2233+00 TO STA 2245+00

HSR14-42
DRAWING NO.
TC-F5001-S14
SCALE
AS SHOWN
SHEET NO.



GENERAL SHEETS

DRAWING NO.	DRAWING DESCRIPTION	SHEET NO.
CV-I0001	INDEX OF DRAWINGS	

CONSTRUCTION STAGING SHEETS

DRAWING NO.	DRAWING DESCRIPTION	SHEET NO.
CV-I4003-S14	BURBANK SUBSECTION, CONSTRUCTION STAGING	

DESIGNED BY
E. VELASCO DRAWN BY
FJ. DOMINGUEZ CHECKED BY
A. NAVARRO IN CHARGE A. RELAÑO 02/01/2019 DESCRIPTION BY CHK APP

BURBANK SUBSECTION DRAFT PEPD REVOI NOT FOR

CONSTRUCTION





CALIFORNIA HIGH-SPEED RAIL PROJECT PALMDALE TO BURBANK

BURBANK SUBSECTION GENERAL INDEX OF DRAWINGS

CONTRACT NO. HSR14-42
DRAWING NO. CV-I0001
NO SCALE

SHEET NO.

EXCAVATION OF PORTAL P10
BUILD PROPOSED VULCAN UNLOADING FACILITY AND PROPOSED VULCAN TRACK

REALIGN SAN FERNANDO BLVD BETWEEN PENROSE ST AND SUNLAND BLVD. SUN VALLEY METROLINK STATION RELOCATION SOUTH OF OLINDA ST. CONSTRUCT HSR CUT AND COVER FROM COHASSET

STREET TILL THE END OF PROJECT.

PHASE 2

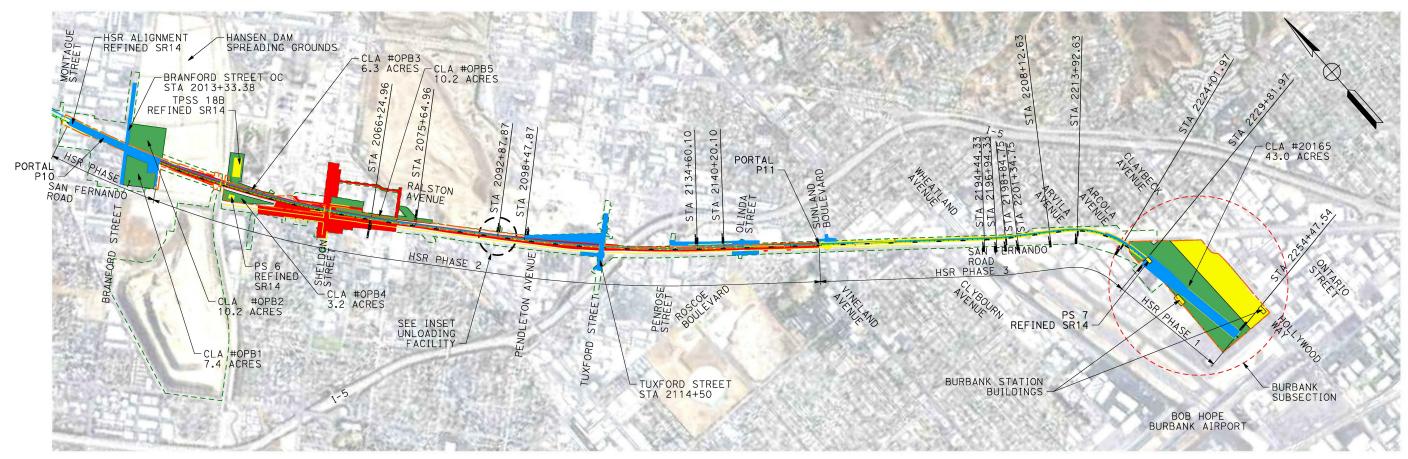
SHIFT VULCAN TRAINS TRAFFIC TO NEW PROP VULCAN TRACK. BUILD NEW HSR STRUCTURE AND DRAINAGE STRUCTURE OVER UNLOADING FACILITY CONSTRUCT SHELDON STREET GRADE-SEPARATION

PERFORM CIVIL WORKS FOR HSR INFRASTRUCTURE, INCLUDING TRENCH AND CUT AND COVER UNTIL

BUILD NEW HSR STRUCTURE OVER TUXFORD ST.

PHASE 3

CONSTRUCT HSR SEM TUNNEL AND CIVIL WORKS
CONSTRUCT HSR TRACK AND SYSTEMS FACILITIES
CONSTRUCT BURBANK STATION BUILDINGS
INSTALL ALL STATION FACILITIES, LAND-SIDE TRANSIT
AMENITIES, WAY FINDING SIGNAGE, HARDSCAPING,
AND LAND SCAPING AROUND STATION.



GENERAL NOTES:

DETAILED CONSTRUCTION SEQUENCE FOR GRADE SEPARATIONS IS NOT PROVIDED IN THIS SET OF PLANS, UTILITY RELOCATIONS ARE NOT SHOWN, TRAFFIC DETOURS ARE NOT SHOWN IN THIS SET 2.

OF PLANS. OF PLANS.
LAYDOWN AREAS, STAGING AREAS AND OTHER
CONTRACTOR'S FACILITIES ARE INCLUDED IN
THIS SET OF PLANS.
CONSTRUCTION PHASES WILL OVERLAP AS NEEDED
TO REDUCE CONSTRUCTION DURATIONS.
HSR TRACK AND SYSTEMS TO BE CONSTRUCTED IN 3.

4.

5. THE LAST PHASE. HATCHED AREAS ONLY REFER TO

CIVIL WORKS. TRAFFIC PHASING NOTES:

PHASE 1:E-W VEHICULAR TRAFFIC THROUGH EXISTING SHELDON ST AND PENROSE ST.

PHASE 2: E-W VEHICULAR TRAFFIC THROUGH REALIGNED BRANFORD ST, REALIGNED TUXFORD ST.

PHASE 3: E-W VEHICULAR TRAFFIC THROUGH REALIGNED ROADWAYS (BRANFORD ST, SHELDON ST, SAN FERNANDO RD, TUXFORD ST, OLINDA ST).

LEGEND :

PHASE 1 PHASE 2 PHASE 3 CONSTRUCTION STAGING/ LAYDOWN AREA (CLA) PROPOSED PERMANENT ENVIRONMENTAL FOOTPRINT

PROPOSED RIGHT OF WAY

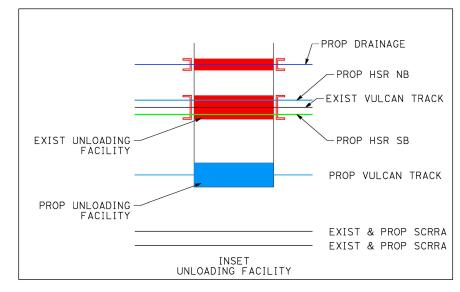
ABBREVIATIONS:

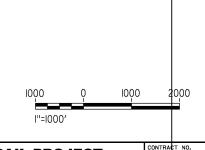
CONSTRUCTION STAGING/ LAYDOWN AREA HIGH SPEED RAIL OVERCROSSING CLA HSR

SCRRA SOUTHERN CALIFORNIA REGIONAL

RAIL AUTHORITY

UP UNION PACIFIC RAILROAD UPRR PS TPSS PARALLELING STATION TRACTION POWER SUB STATION





							DESIGNED BY E. VELASCO
							DRAWN BY FJ. DOMINGUEZ
							CHECKED BY
2							A. NAVARRO IN CHARGE
300							A. RELAÑO
020	REV	DATE	BY	СНК	APP	DESCRIPTION	02/01/2019

RURBANK SUBSECTION DRAFT PEPD REVOI

NOT FOR

CONSTRUCTION





CALIFORNIA HIGH-SPEED RAIL PROJECT PALMDALE TO BURBANK

BURBANK SUBSECTION CONSTRUCTION STAGING

H	ISR14-42
CV	_{NO.} -I4003-S14
scale AS	SHOWN
SHEET N	10.